

**Dr. V.S. VASANTHA M.Sc., B.Ed., Ph.D.**

Professor &amp; Head, Department of Natural Products Chemistry

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<https://mkuniversity.ac.in/new/school/sc/vasantha.php><https://www.scopus.com/authid/detail.uri?authorId=6603548622>**1. Personal Details**

Date of Birth & Age	:	13.01.1965 & 57 years
Gender & Marital Status	:	Female & Widow
Community	:	DNC
Nationality	:	Indian
Place of Birth	:	Tamil Nadu

**2. Educational Qualifications****2.1. Academic**

Degree/ Examination	Name of the Exam	University/ Institute	Year of Passing	Percentage/ Grade	Main Subject
Under Graduate	B.Sc.	Madurai Kamaraj University	1985	First class	Chemistry
Post Graduate	M.Sc.	Alagappa University	1988	First class	Industrial Chemistry (Electrochemistry)
Teacher Education	B.Ed.	Annamalai University	1990	First class	Chemistry I and II
NET	CSIR-UGC/ NET/ NET- LS	-	-	-	-

**2.2. Research**

Degree	Name of the University	Title of the Thesis	Date of Submission	Date of Award
PhD	Alagappa University	Electro deposition of Tin, Zinc and Tin-Zinc Alloy from Sodium Gluconate Complexes.	April, 1994	June, 1995
MPhil	-	-	-	-
DSc/DLitt	-	-	-	-

**3. Post-Doctoral/ Research Associate / Industrial Experience**

Name of the University / Institute / Industry	Period of Work	Nature of Work
Korea Institute of Science & Technology	09.12.2007 to 13.10.2008	Brain-Pool Scientist

National Taiwan University	30.04.2007 to 13.10.2007	Post-Doctoral Fellow
Taiwan Textile Research Institute	08.11.2006 to 23.03.2007	Senior Researcher
National Taipei University of Technology	15.03.2004 to 31.07.2006	Post-Doctoral Fellow
Central Electro Chemical Research Institute	28.12.1998 to 15.11.2000	Research Associate
North Eastern Institute for Science and Technology	01.08.1996 to 12.09.1998	Research Associate
Central Electro Chemical Research Institute	09.05.1995 to 15.04.1996	Provisional Research Associate

#### 4. Professional Experience

No	Name of the University / Institution	Position Held	From (Date)	To (Date)
1	Madurai Kamaraj University	Professor	22.10.2013	Till date
2	Madurai Kamaraj University	Associate Professor	22.10.2010	21.10.2013
3	Alagappa University	Reader	16.10.2008	21.10.2010

#### 5. Teaching

No	Year	Semester	Course Code	Course Title	Hours per Week
1	2022-2023	III	CHE2132C	Analytical Chemistry	3
2	2022-2023	III	CHE2134E	Green Chemistry	3
3	2022-2023	I	IMF 101	Pre-treatment Processes and Electroplating of Precious and Non-Precious Metals	3
4	2022-2023	I	IMF 102	Electroplating of Alloys and Composites and Electrodeless Plating	3
5	2022-2023	I	IMF 105	Practical	3

#### 6. Design/Development of New Curricula and Courses

No	Description	Organization for which it was Developed	Level (PG/UG)
1	PG Diploma in Industrial Metal Finishing	Madurai Kamaraj University	PG

#### 7. Creation of ICT Mediated Teaching-Learning Pedagogy

##### 7.1. SWAYAM / MOOCs

No	Description	Organization for which it was Developed	Level (PG/UG)
-	-	-	-

## 7.2. E-Contents

No	Description	Organization for which it was Developed	Level (PG/UG)
-	-	-	-

## 7.3. Development of other ICT Mediated Teaching-Learning Pedagogy

No	Description	Organization for which it was Developed	Level (PG/UG)
-	-	-	-

## 8. Research Specialization / Field of Research

- Biosensors
- Fuel Cell
- Electroplating
- Corrosion
- Natural Products Chemistry
- Photocatalysis

## 9. Research Publications

Type	International	National
Papers Published in UGC-CARE Listed Journals	-	-
Papers in Refereed Journals (Not mentioned above)	83	7
Books Published	-	-
Books Edited	-	-
Contributions to Book Chapters	3	-
Editor of Conference/Seminar Proceedings	-	-
Papers Published in Conference/Seminar Proceedings	2	1
Papers Presented in Conferences/Seminars	29	28
Conference/Seminar/Workshop Attended	26	30
Deposits in CCDC, PDB, etc.	-	

## 10. Citation Metrics

Cumulative Impact Factor (Recent Annual JCR)	-
Total Citations (Scopus/Web of Science)	2232
h-Index (Scopus)	28
g-Index (Scopus)	31
i10 Index (Scopus)	51

## 11. Details of Patents

1. Vairathevar Sivasamy Vasantha, Malathy Pushpavanam, Sannanallur Ramachandran, Natarajan. (2002), "An Improved process for the electrodeposition of Tin" 881/DEL/92 dated 30.09.1992- Indian Patent.

## 12. Research Guidance/Supervision

Degree / Programme	Completed	Submitted	Ongoing
PhD (Full-time)	7	1	7
PhD (Part-time)	1	1	-
MPhil Research Project (Full-time)	7	-	-
MPhil Research Project (Part-time)	-	-	-
MSc Projects/Dissertation	50	-	2
MSc Internships/Summer or Winter Projects	20	-	-

## 13. Funded Research Projects

### 13.1. Ongoing

No	Title of the Project	Funding Agency	Period / Duration	Total Grants Sanctioned (Rs)
1	Point of Care Smartphone based Electrochemical Detection of Dopamine	Entrepreneurship project under RUSA 2.0	6 months	2 lakhs
2	Porous Nanomaterials for Sensors, Magnetic, and Energy Storage and Conversion Applications	Tamil Nadu State Council for Higher Education (TANSICHE) <b>File No: RGP/2019-20/SLU/HEPC-0081</b>	3 Years	6.10 lakhs
3	Molecular Design and Development of Imaging Agents and Inhibitors: A Chemical Biology Approach (Team Project)	MKU-RUSA <b>Ref.No.:1.007/MKU/RUSA/2020-2021</b> dated 24 Dec 2020 <b>Ref.No.:2.SOC/KMPR/RUSA/2020-2021/02</b> dated 18 January 2021 <b>Ref.No.:3.MKU/RUSA/Project - 007/2021-2022/PA-01</b> dated 28 April 2021	2 Years	35.48 lakhs (Out of 3.5 Cr)

### 13.2 Completed

No	Title of the Project	Funding Agency	Duration and Month & Year of Completion	Total Grants Received (Lakhs)	No of Papers out of Project
1	Designing of Florescent Probes to Develop Optical Biosensor for Multiplex Detection of Botulinum Neurotoxins. <b>No. DRDE-PI-2017/Task-222</b> <b>Dated 03.05.2017</b>	DRDE, Gwalior	2 years May 2017- May 2019	09.90 lakhs	3
2	Designing of Label Free Multiplex Electrochemical Immunoassay for Detection of	DST-SERB, Delhi	3 years Mar 2016 to Mar 2019	39.358 lakhs	5

	Pathogens. <b>EMR/2015/002035 Dated 18.03.2016 (MAJOR)</b>				
3	Nano Conducting polymer - Enzyme Based Biosensor for Creatine and Creatinine. <b>F. No. 41/352/2012(SR) dated 13.07.2012(MAJOR)</b>	UGC New, Delhi	3 years Jul 2012 to Jul 2015 Extension up to Jan 2016	09.91 lakhs	4
4	Conducting Polymer/carbon nanotubes hydride composite approach for toxic gas sensor. <b>No. 01(2360)/09/EMR-II dated 25.05.2011 (MAJOR)</b>	CSIR, New Delhi	3 years Apr 2011 to March 2016 Extension up to Mar 2017	13.00 lakhs	3
5	Development of cost-effective Nano Crystalline Ni-C composite bipolar plates for PEM-Fuel cells. <b>No. A13/AURF/2009</b>	Alagappa University Research Funds for Overseas Project	1 Year Oct 2009- Oct 2010	2.40 lakhs	3

#### 14. Reviewer in Journals

Name of the Journal	Publisher	No of Papers Reviewed
ACS Analytical chemistry	American Chemical Society	3
Inorganic Chemistry	American Chemical Society	2
ACS Sensor	American Chemical Society	2
ACS Omega	American Chemical Society	1
ACS Environmental Science and Engineering Technology	American Chemical Society	1
New Journal of Chemistry	Royal Society of Chemistry	3
RSC Advance	Royal Society of Chemistry	2
Analytical Methods	Royal Society of Chemistry	1
RSC Analyst	Royal Society of Chemistry	3
Sensors and Actuators: B chemical	Elsevier	7
Biosensor and Bioelectronics	Elsevier	9
Analytical Chemical Acta	Elsevier	1
Electrochimica Acta	Elsevier	2
Materials Today: Proceedings, etc.,	Elsevier	2
Electroanalysis	Wiley	2
Chemistry Select	Wiley	7
Microchimica Acta	Springer	2
Bulletin of Materials Science	Springer	1
Journal of Nanostructure in Chemistry	Springer	1
Current Analytical Chemistry	Bentham Science	1
Food Quality and Safety	OXFORD University Press	1

## 15. Research Collaborations

Name of the Collaborator	Institute	Collaboration Details
Dr. Subramanian. V	CSIR-Central Leather Research Institute	Kamatchirajan Balaji Viswanath, Kannan Suganya, Govindan Krishnamoorthy, Murugan Marudhamuthu, Subramanian Tamil Selvan, and Vairathevar Sivasamy Vasantha. Enzyme-Free Multiplex Detection of Foodborne Pathogens Using Au Nanoparticles- Decorated Multiwalled Carbon Nanotubes. <i>ACS Food Science &amp; Technology</i> <b>2021</b> , 1, 7, 1236-1246.
Dr. Kumaravel. V, Endocrinologist	Alpha Hospital and Research Centre, Madurai	Ellairaja,S.; Venkatesan,S.; Kumaravel,V.; Vasantha, V.S. Michael Addition Based Chemodosimeter for Serum Creatinine Detection Using (E)-3-(Pyren-2-yl)-1-(3,4,5-trimethoxyphenyl) prop-2-en-1-one Chalcone. <i>ACS Sensors</i> , <b>2018</b> , 3, 11, 2467-2470.
Dr. S. Ponmariappan	DRDE, Gwalior	<ol style="list-style-type: none"> <li data-bbox="703 792 1410 1048">1. Shenbagavalli, K.; Yadav, S. K.; Ananthappan, P.; Ellairaja, S.; Ponmariappan, S.; Vasantha, V. S. A simple and fast protocol for the synthesis of 2-amino-4-(4-formylphenyl)-4H-chromene-3-carbonitrile to develop an optical immunoassay for the quantification of botulinum neurotoxin type F, <i>New J. Chem</i>, <b>2020</b>, 44, 20083-20091.</li> <li data-bbox="703 1048 1410 1272">2. Ellairaja, S.; Krithiga, N.; Ponmariappan, S.;Vasantha, V. S. Novel Pyrimidine Tagged Silver Nanoparticle Based Fluorescent Immunoassay for the Detection of Pseudomonasa eruginosa. <i>J. Agric. Food Chem</i>, <b>2017</b>, 65, 1802-1812.</li> <li data-bbox="703 1272 1410 1491">3. Ellairaja, S.; Shenbagavalli, K.; Ponmariappan, S.; Vasantha, V. S. A green and facile approach for synthesizing imine to develop optical biosensor for wide range detection of bilirubin in human biofluids. <i>Biosensors and Bioelectronics</i>, <b>2017</b>,91, 82-88.</li> </ol>
Dr. Chen, S.M	Sun Yat-sen University	<ol style="list-style-type: none"> <li data-bbox="703 1491 1410 1715">1. Arulraj, A. D.; Devasenathipathy, R.; Chen, S. M.; Vasantha, V. S.; Wang, S. F. Femtomolar detection of mercuric ions using Polypyrrole, Pectin and Graphene nanocomposites Modified electrode, <i>J Colloid Interface Sci</i>, <b>2016</b>,483, 268-274.</li> <li data-bbox="703 1715 1410 1895">2. Arulraj, A. D.; Devasenathipathy, R.; Chen, S.M.; Vasantha, V. S., Wang, S.F. Highly selective and sensitive fluorescent chemosensor for femtomolar detection of silver ion in aqueous medium, <i>Sensing and Bio-Sensing Research</i>, <b>2015</b>, 6,19-24.</li> <li data-bbox="703 1895 1410 2040">3. Devasenathipathy, R.; Karthik, R.; Chen, S.-M.; Mani, V.; Vasantha, V. S.; Ajmal Ali, M.; Elshikh, M. S.; Lou, B.-S.; M. A. Al-Hemaid, F. Potentiostatic Electrochemical Preparation of</li> </ol>

		<p>Bismuth Nanoribbons and Its Application in Biologically Poisoning Lead and Cadmium Heavy Metal Ions Detection, <i>Electroanalysis</i>, <b>2015</b>, 27, 1-7.</p> <p>4. Veeramani, V.; Madhu, R.; Chen, S.-M.; Lou, B.-S., Palanisamy, J.; Vasantha, V. S. Biomass-derived functional porous carbons as novel electrode material for the practical detection of biomolecules in human serum and snail haemolymph Scientific Reports, <i>Scientific Reports</i>, <b>2015</b>, 5, 10141.</p> <p>5. Devasenathipathy, R.; Chen, S.M.; Vasantha, V. S.; Ajmal Ali, M.; Huang, S.-T.; Fahad M. A. Al-Hemaid. A simple electrochemical platform based on pectin stabilized gold nanoparticles for picomolar detection of biologically toxic amitrole, Mani, V.; <i>Analyst</i>. <b>2015</b>,140, 5764-5771.</p> <p>6. Karuppiah, C.; Devasenathipathy, R.; Chen, S.M.; Arulraj, D.; Palanisamy, S.; Mani, V.; Vasantha, V. S. Fabrication of Nickel Tetrasulfonated Phthalocyanine Functionalized Multiwalled Carbon Nanotubes on Activated Glassy Carbon Electrode for the Detection of Dopamine, <i>Electroanalysis</i>, <b>2015</b>, 27, 485-493.</p> <p>7. Mani, V.; Devasenathipathy, R.; Chen, S.M.; Huang, S.T.; Vasantha, V.S. Immobilization of glucose oxidase on graphene and cobalt phthalocyanine composite and its application for the determination of glucose. <i>Enzyme and Microbial Technology</i>, <b>2014</b>, 66,60-66.</p> <p>8. Devasenathipathy, R.; Karuppiah, C.; Chen, S.M.; Mani, V.; Vasantha, V.S.; Ramaraj, S. Highly selective determination of cysteine using a composite prepared from multiwalled carbon nanotubes and gold nanoparticles stabilized with calcium crosslinked pectin, <i>MicrochimActa</i>, <b>2014</b>, 182(3-4), 727-735.</p> <p>9. Devasenathipathy, R.; Mani, V.; Chen, S.M.; Balaji Viswanath, K.; Vasantha, V.S.; Govindasamy. Electrodeposition of gold nanoparticles at pectin scaffold and its electrocatalytic application to the selective determination of dopamine. <i>M. RSC Adv</i>.<b>2014</b>,4, 55900-55907.</p> <p>10. Devasenathipathy, R.; Mani, V.; Chen, S.M.; Daniel Arulraj, A.; Vasantha, V. S. Highly stable and sensitive amperometric sensor for the determination of trace level hydrazine at cross linked pectin stabilized gold nanoparticles decorated graphene nanosheets, <i>Electrochimica Acta</i>. <b>2014</b>, 135, 260-269.</p>
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		<p>11. Vasantha, V.S.; Thangamuthu, R.; Chen, S. M. Electrochemical polymerization of 3,4-ethylene dioxythiophene from aqueous solution containing hydroxypropyl-<math>\beta</math>-cyclodextrin and the electro catalytic behavior of modified electrode towards oxidation of sulfur oxoanions and nitrite. <i>Electroanalysis</i>. <b>2008</b>, 20, 1754.</p>
Dr. Vijayan. M	CECRI, Karaikudi	<p>1. BalajiViswanath, K.; Krithiga, N.; Vijayan, M.; Sheik, M. A.; Vasantha. V. S. Picomolar Level Detection of Insulin in Serum using Pectin Gold nanocomposite Platform Immunoassay. <i>Der Pharma Chemica</i>, <b>2018</b>, 10 (11), 72-82.</p> <p>2. Arulraj, A. D.; Arunkumar,A.; BalajiViswanath, K.; Vijayan, M.; Vasantha V. S. A simple route to Develop Highly porous Nano Polypyrrole/Reduced Graphene Oxide Composite film for Selective Determination of Dopamine. <i>ElectrochimicaActa</i>, <b>2016</b>, 206, 77-85.</p> <p>3. Daniel A, A.; Vijayan, M.; Vasantha, V.S. Highly selective and sensitive simple sensor based on electrochemically treated nanopolypyrrole-sodium dodecyl sulphate film for the detection of para-Nitrophenol. <i>Analytica Chimica Acta</i>, <b>2015</b>, 899, 66-74.</p> <p>4. Ellairaja, S.; Manikandan, R.; Vijayan, M.; Seenivasan, R.; and Vasantha, V.S. A Simple Highly Sensitive and Selective TURN-ON Fluorescent Chemosensor for the Detection of Cadmium Ions in Physiological Condition. <i>RSCAdv</i>, <b>2015</b>, 5, 63287-63295.</p> <p>5. Arulraj, A. D.; Vijayan, M.; Vasantha, V. S. Spectrophotometric determination of pico- molar level of hydrazine by using Alizarin red in water and urine samples. <i>Molecular and Biomolecular Spectroscopy</i>. <b>2015</b>, 148, 355-361.</p> <p>6. Daniel Arulraj, A.; Vijayan, M.; Samseya, J.; Vasantha, V. S. A Simple and Highly Sensitive Electrochemically Reduced p-Nitrobenzoic Acid Film Modified Sensor for Determination of Mercury. <i>Electroanalysis</i>, <b>2014</b>, 26, 1-11.</p>
Dr. Jayachitra	Dept of Biotechnology, School of Biological Science, MKU	<p>1. Balaji Viswanath, K.; Krithiga, Jayachitra, A.; Sheik Mydeen,N.; Jose Amali,A.; Vasantha, V. S. Enzyme Free Multiplex Detection of Pseudomonas aeruginosa and Aeromonashydrophila with ferrocene and thionine labeled antibodies using ZIF-8/Au NPs as a platform. <i>ACS Omega</i>, <b>2019</b>, 4, 4814-4824.</p> <p>2. Deepa, R.; Gurupavithra, S.; Jayachitra, A.; Vasantha, V.S. Elucidation of biofilm inhibition in different clinical isolates using naturally isolated</p>



		<p>compounds from albiziaodoratissima” <i>Indo American Journal of Pharmaceutical Sciences, IAJPS</i>, <b>2017</b>, 4 (12), 4397- 4410.</p> <p>3. Krithiga, N.; Balaji Viswanath, K.; Vasantha, V.S.; Jayachitra. A Specific and Selective electrochemical immunoassay for Pseudomonas aeruginosa based on Pectin-Gold Nano composite, <i>Biosensors and Bioelectronics</i>, <b>2016</b>, 79, 121-129.</p>
Dr. Srinivasan. R	CECRI, Karaikudi	<p>1. Samseya, J.; Srinivasan, R.; Daniel Arulraj, A.; Vasantha, V. S. A Highly Selective and Sensitive Multiwall Carbon Nanotubes/Nafion/Au Microarrays Electrode for Dopamine Determination. <i>Electroanalysis</i>. <b>2014</b>, 26, 1702-1711.</p> <p>2. Samseya, J.; Srinivasan, R.; Chang, Y.T.;Tsao, C.W.; Vasantha, V.S. Fabrication and Characterisation of High performance polypyrrole modified Microarray Sensor for Ascorbic Acid Determination. <i>AnalyticachimicaActa</i>. <b>2013</b>, 793, 11-18.</p>
Dr. Ho, K. C	National Cheng Kung University	<p>1. Lin, C. V.; Ho, K. C. Potentiometric silicon microsensor for nitrate and ammonium, <i>Sens. Actuators B</i>. <b>2010</b>, 18, 51-57.</p> <p>2. Lin, C. V.; Ho, K.C; Vasantha, V.S. Detection of nitrite using poly (3,4-ethylenedioxy thiophene) modified SPCEs, <i>Sensors &amp; Actuators B. Chemical</i>. <b>2009</b>,140, 51-57.</p> <p>3. Hsua, C.Y.; Chena, P.Y.; Ho, K.C; Vasantha, V.S. A new stable Fe (CN)<sub>6</sub><sup>3-/4-</sup>--immobilized poly (butyl viologen)-modified electrode for dopamine determination, <i>Sensors and Actuators-B chemical</i>. <b>2009</b>, 137, 313-319.</p> <p>4. Hsu, C.Y.; Ho, K.C; Vasantha, V.S. A Study of ion exchange at the poly (butyl viologen)-electrolyte interface by SECM, <i>Electrochimica Acta</i>. <b>2008</b>, 53, 6244.</p>
Dr. Jayalakshmi.S	Kumaraguru College of Technology	<p>Periyasamy Ananthappan, Selvam Seena, Chellakannu Arunbalaji, Vasantha Vairathevar Sivasamy, Mariakuttikan Jayalakshmi. (2022). “Electrochemical Sensors for the Detection of Food Adulterants in Miniaturized Settings.” In the Book, Pranjali Chandra, Parmjit S. Panesar (Eds.), Nano sensing and Bioanalytical Technologies in Food Quality Control. Singapore, Springer. (BOOK CHAPTER)</p>
Dr. Santhi. T	Karpagam University	<p>Santhi, T.; Manonmani, S.; Vasantha, V. S.; Chang, Y.T. A new alternative adsorbent for the removal of cationic dyes from aqueous solution. <i>Arabian Journal</i></p>

		<i>of Chemistry</i> . <b>2011</b> , 9, 466-S474.
Dr. Fleury. E	KIST	<ol style="list-style-type: none"> <li>Chin, H.-S., Fleury, E; Vasantha, V.S. Corrosion properties of Ni-Nb&amp; Ni-Nb-M (M = Zr, Mo, Ta &amp; Pd) metallic glasses in simulated PEMFC conditions, <i>Journal of Physics: Conference Series</i>. <b>2009</b>, 144, 012008.</li> <li>Jayalakshmi, S.; Fleury, E.; Gupta, M; Vasantha, V.S; Characteristics of Ni-Based Metallic Amorphous Alloys for Hydrogen-Related Energy Applications, <i>Applied Energy</i>. <b>2012</b>, 90(1), 94-9</li> </ol>

## 16. Countries Visited

Name of the Country	Period	Purpose
Malaysia	13.12.2022-23.12.2022	<ol style="list-style-type: none"> <li>Oral presentation at <b>Sunway University</b> on “International Conference on emerging Materials for Sustainable Energy and Environment-2022” from 13.12.2022 to 15.12.2022</li> <li>Attended one day workshop on MXENE course on 16.12.2022</li> <li>Short visit from 18.12.2022 to 22.12.2022 and LOI signing at Universiti Malaysia Terengganu on 20.12.2022</li> </ol>
Taiwan	15.08.2013-19.09.2013	Visiting Professor at National Taipei University of Technology
Taiwan	16.05.2011-24.06.2011	Visiting Professor at National Taipei University of Technology
Germany	24.08.2008-29.08.2008	Oral Presentation on “Corrosion properties of (Ni <sub>60</sub> Nb <sub>40</sub> ) <sub>95</sub> X <sub>5</sub> [X= Zr, Mo, Ti, Pd] Metallic Glasses In Stimulated PEMFC” at The 13th International Conference on Rapidly Quenched & Metastable Materials (RQ13), Technical University of Dresden (TU), Dresden.
South Korea	12/2007-10/2008	Brain-pool Scientist at Korea Institute of Science & Technology.
Taiwan	04/2007-10/2007	Post-Doctoral Fellow at National Taiwan University
Taiwan	11/2006-03/2007	Senior Researcher at Taiwan Textile Research Institute
Taiwan	03/2004-07/2006	Post-Doctoral Fellow at National Taipei University of Technology

## 17. Honours / Awards / Recognitions

Name of the Honours / Awards / Recognition	Awarding Agency	International / National / State / Institute Level
<b>Junior Research Fellowship</b>	Central Electro Chemical Research	National level

	Institute (CSIR-CECRI), India	
<b>Senior Research Fellow</b>	Council of Scientific and Industrial Research (CSIR), India	National level
<b>Research Associate</b>	Council of Scientific and Industrial Research (CSIR), India	National level
<b>Post-Doctoral Fellow</b>	National Taiwan University, Taiwan	International level
<b>Post-Doctoral Fellow</b>	National Taipei University of Technology, Taiwan	International level
<b>Senior Researcher</b>	Taiwan Textile Research Institute, Taiwan	International level
<b>Brain-pool Scientist Fellowship</b>	The Ministry of Education, Science and Technology, South Korea	International level
<b>Recognition Award for “Valuable Contribution to ACS Publications”</b>	ACS Publication	International level
<b>“The Oronzio and Niccolò De Nora Foundation Young Author award”</b>	International Society of Electrochemistry	International level
<b>Journal of Electro Analytical Chemistry “Most Cited Article- 2005-2009 Award by Elsevier”</b>	Elsevier	International level
<b>Cited in Science Last Fortnight CURRENT SCIENCE- 2017</b>	Last Fortnight	International level

### 18. Conferences / Seminars / Workshops Organized

<b>Level</b>	<b>Conference Title</b>	<b>Date(s)</b>	<b>Place</b>	<b>Role Played</b>	<b>Funding</b>
Institute level seminar	How to translate redox-active system into clinically valuable diagnostic material?	Aug, 29,2022	Madurai Kamaraj University, Madurai	Convener	Supported by RUSA Phase-II Programme
International level Conference	Three-Day International e-Conference On Electrochemical Techniques and their Applications in the Development of Sensors (ETADS-22)	Jan, 20-22, 2021	School of Chemistry, Madurai Kamaraj University, Madurai, Tamil Nadu, India.	Convener	Partially supported by RUSA Phase-II Programme
International level Conference	Indo-Malaysian Two-Day International e-Conference	Sep, 16 & 17 2021	School of Chemistry, Madurai Kamaraj	Convener	Partially supported by RUSA Phase-II

	On Recent Trends in Natural Products Research and Their Applications (RTNPRA- 21)		University, Madurai, Tamil Nadu, India. & BioSES Research Interest Group Faculty of Science and Marine Environment University Malaysia Terengganu		Programme
National level Workshop	Recent Development in Chemistry	Jan 27-28, 2016.	School of Chemistry, Madurai Kamaraj University.	Coordinator	Science of Academies of India

### 19. Invited Lectures / Resource Person

No	Institute / Organizer	Name of the Conference / Seminar / Workshop	International / National / State / Institute Level	Date(s)
1.	Universiti Malaysia Terengganu, Malaysia	Public Lecture on "Electrochemical and Optical Biosensors for the Detection of Biomolecules, Toxins and Pollutants"	International level	19.12.2022
2.	V.V.V college for women, Virudhunagar	Electroanalytical techniques- Cyclic voltammetry and Polarography	Institute level	06.12.2022
3.	Madurai Kamaraj University, Madurai	Nuances on Documentation process: Research Proposal, NAAC&NIRF	Institute level	13.08.2022
4.	St. Anthony's College of Arts and Science for Women, Dindugal	Chief Guest for the Convocation	Institute level	26.04.2022
5.	Kamaraj College, Thoothukudi	National Seminar on "Role of catalyst in Chemistry"	National Level	22.04.2022
6.	Mother Teresa University, Kodaikanal	Woman in Science and Technology: Issues and Concerns	Institute level	28.02.2022
7.	V.V.V college for women, Virudhunagar	Electro analytical techniques- Cyclic voltammetry and Polarography	Institute level	06.02.2021
8.	Madurai Kamaraj	Refresher Course on "Frontiers	Institute level	10.11.2021-

	University, Madurai	in Chemistry”		23.11.2021
9.	Madurai Kamaraj University, Madurai	Internal Complaints Committee (ICC) Awareness Programme	Institute level	28.05.2018
10.	V.V.V college for women, Virudhunagar	Basic of Electro Analytical Techniques and their Applications in Biosensor	Institute level	27.12.2016
11.	Bharathiyar University, Coimbatore	Electrochemical applications for Sensors at UGC-Human Resource Development Centre	Institute level	14.07.2016
12.	Yadava College, Madurai	Invited talk on “Chemistry in Natural Medicine”	Institute level	2014
13.	Madurai Kamaraj University, Madurai	Refresher Course in Chemistry organized by UGC Academic Staff College	Institute level	06.11.2013
14.	Madurai Kamaraj University, Madurai	“Biosensor” in the Refresher Course on Life Sciences – Tools and Techniques in Biological Research”	Institute level	06.12.2012
15.	V.V.Vanniaperumal College for Women, Virudhunagar	Invited talk on “Fuel Cells”	Institute level	28.02.2012
16.	V.V.Vanniaperumal College for Women, Virudhunagar	Invited talk on “Biosensors”	Institute level	28.02.2012
17.	Madurai Kamaraj University, Madurai	Invited talk on “Natural Products Chemistry”	Institute level	11.11.2011
18.	Madurai Kamaraj University, Madurai	Invited talk on “Biosensors and their applications”	Institute level	15.07.2011
19.	Karpagam Arts and Science College, Coimbatore	National Seminar on “Carbon Nanotubes”	National level	22.01.2009

## 20. Professional Development Programs / Faculty Development Programs Organized

Name of the Program	Role	Place	Date(s)	Funds in Rs & Sponsor
State Level Refresher Course for College Teachers	Coordinator	Madurai Kamaraj University	06.03.2018-30.03.2018	UGC- Staff academic college, Madurai Kamaraj University
Second Nationwide Competition for Awareness to Rights for Women	Presiding Officer	Madurai Kamaraj University	12.12.2018	Ministry of Women and child Development, New Delhi
Health Care and National Mol Bank Operation and Maintenance	Coordinator	Madurai Kamaraj University	12.09.2017	DST- PURSE (Phase II)

## 21. Professional Development Programs / Faculty Development Programs Attended

Name of the Program	Place	Date(s)	Sponsor
-	-	-	-

## 22. Administrative Experiences

Name of the Professional Body	International / National	Type of Membership
Registrar (i/c)	National	General Administration of all Schools, Departments, Constituted colleges and Affiliated Colleges under Madurai Kamaraj University
Research Director(i/c)	National	Appointed as Research Director in Madurai Kamaraj University, Madurai
Chairperson	National	School of Chemistry, Madurai Kamaraj University, Madurai.
Coordinator	National	Postgraduate Diploma in Industrial Metal Finishing, Dept. of Natural Products Chemistry, School of Chemistry, Madurai Kamaraj University, Madurai
Research Coordinator(i/c)	National	Appointed as Research Coordinator in Madurai Kamaraj University, Madurai
Presiding Officer	National	Representative as University nominee in the Women Harassment Cell for against sexual abuse and Harassment in the working place
Director	National	Director for Women's Hostel, Madurai Kamaraj University, Madurai
Head of the Department	National	Head of The Department, Department of Natural Products Chemistry
Member	National	Member in RUSA, Madurai Kamaraj University
Inspection Commission Member	National	Inspection Commission Member for Sri Ramanas College of Arts and Science for Women, Aruppukottai. Sri Krishnasamy Arts and science college, Virudhunagar. E.M.G Yadava Women's College, Madurai.
Member	National	Senate, Madurai Kamaraj University
Organizer	National	Two-day National Seminar on "Recent Developments in Chemistry" funded by Science Academies of India, New Delhi
Nodal Officer	National	Nodal Officer for differently Abled Persons, Madurai Kamaraj University
External subject expert committee	National	DST - SERB project interview at School of Chemistry, Madurai Kamaraj University
Member for Project Evaluation Committee	National	Member for Project Evaluation Committee in KLN college of Engineering, Madurai

Judge	National	Acted as Judge for Science Exhibition SETT'14 in Sethu Institute of Technology, Kariapatti, Virudhunagar District
	National	Acted as Judge for the ISTE sponsored Student Chapter event of “ <b>Concept Design of Point-of-Care Immunodiagnos</b> tics” on 15 <sup>th</sup> October, 2022 at Kamaraj College of Engineering & Technology, Virudhunagar.
	National	Acted as Judge for Science Exhibition “Alchemy”, Organized by School of Chemistry, M.K. University, Madurai-21
Technical Advisory Committee member	National	Procurement of Analytical cum-semi preparative HPLC, Spectrofluorometer & Electrochemical Analyzer at School of Chemistry, Madurai Kamaraj University, Madurai
Member in technical and Purchase committee	National	Member in technical and Purchase committee of Zeta Potential Analyzer at CECRI, Karaikudi
Grievance Committee at Central University of Tamilnadu	National	Member of Grievance Committee for examining Grievance of Shri. S. Murugan at Central University of Tamilnadu.
Member in technical and Purchase committee	National	Member in technical and Purchase committee of Zeta Potential Analyzer at CECRI, Karaikudi
Governing Committee	Institute	Member of Governing committee at Madurai Kamaraj University University Representative for the Governing body, Lady Doak College, Madurai
Selection Committee	Institute	Member of the committee to identify the vacancies in the concerned department to regularize the post of faculty appointed in X and XI plans at Madurai Kamaraj University. Selection Committee for the appointment of Assistant Professor of chemistry in SFR college. Member of Selection Committee for the selection of trainers/technologists for 4 vacancies under RUSA 2.0 scheme. Member of Selection Committee for the appointment of Assistant Professor at S.V.N College, Madurai; P.M.T College, Usilampatti; ANJA College, Sivakasi Subject expert for a guest faculty interview in chemistry
Technical and Purchase committee	Institute	External Member in Technical and Purchase committee for the procurement of Zeta Potential Analyser under the HYDEN CSC 0122 Project, CECRI, Karaikudi.
TANSCHE Project	Institute	Member of TANSCHE Project Monitoring

Monitoring Committee		Committee, Madurai Kamaraj University, Madurai
Finance and Accounts manual committee	Institute	Member/ Convenor of the Committee constituted to frame the finance and accounts manual for Madurai Kamaraj University.
Past Members of Service Committee	Institute	Member of Past Members of Service Committee.
Examination, Discipline and Students welfare committee	Institute	Member of Examination, Discipline and Students welfare committee at Madurai Kamaraj University.
Recognition, Affiliation and Endowment Committee	Institute	Member of Recognition, Affiliation and Endowment Committee at Madurai Kamaraj University.
Awards committee	Institute	Member of Awards committee at ANJA college, Sivakasi; EMG Yadava College, Madurai.
Academic Council Member	Institute	Member at Lady Doak College, Madurai; Holy Cross College, Kanyakumari.
Inspection Commission	Institute	Member of Inspection Commission to report on the facilities available at EMG Yadava college, Madurai
Committee to frame guidelines to offer guideship to teachers	Institute	Member secretary for the Committee constituted to frame guidelines to offer guideship to teachers working under SF stream in Aided and SF colleges affiliated to Madurai Kamaraj University.
Enquiry committee	Institute	Member of enquiry committee to enquire the issue of missing answer scripts in DDE examination wing, MKU. For the performance review of guest lecturers on hourly basis at Madurai Kamaraj University. Member of Enquiry committee at Periyar University, Salem
Management committee	Institute	University Representative in the Managing Committee at Madurai Gandhi N.M.R. Subramani College for Women, Madurai Member of management committee constituted for MKU Evening Colleges located near Madurai Member of Management committee at VVV college, Virudhunagar. Member of Management committee at Subbalakshmi Lakshmi pathy College of Science, Madurai.
Planning and Evaluation Committee	Institute	Member at Virudhunagar Hindu Nadar's Senthikumara Nadar College, Virudhunagar

### 23. Membership in Academic Bodies



<b>Name of the University / Institute / College</b>	<b>Type of Membership</b>	<b>Duration / Period</b>
Central Electro Chemical Research Institute (CECRI), Karaikudi	External expert to conduct Ph.D. viva-voce examination	28.09.2022
SRM, Chennai	External expert for doctoral committee constituted for a research scholar	22.07.2022
EMG Yadava College	Visited for the affiliation of PG course	20.07.2022
Alagappa University, Karaikudi	External member for the Pre thesis submission of two scholars	24.06.2022
Madurai Kamaraj University, Madurai	Member of Board of Studies, Material Science (UG/PG)	18.05.2022-30.06.2024
Mother Teresa Women's University, Attuvampatti Campus, Kodaikanal	External Expert in the Research Committee	25.05.2022
Thiyagarajar College	University Nominee for the Board of Studies	23.04.2022
SVN College, Madurai	Member in Board of Studies	02.03.2020
Madurai Kamaraj University, Madurai	Member in expert committee to frame and finalize the syllabus for PG Diploma in Water and Waste Water Quality	15.02.2020
V.V.V college for women, Virudhunagar	Member in Board of Studies	07.11.2019
V.V.V college for women, Virudhunagar	Member in Board of Studies	25.10.2019
V.V.V college for women, Virudhunagar	Member in Board of Studies	10.10.2019
University of Kerala	Member of the Board of examiners for evaluating the doctoral thesis to the candidate of Mr. Anantha Krishnan R	26.09.2019
Madurai Kamaraj University, Madurai	Member in a Research Committee	13.06.2019
S.B.K College, Aruppukottai	External Examiner to M.Sc., Chemistry Practical exam	25.04.2019
Madurai Kamaraj University, Madurai	Membership in the Senate	20.03.2019
G.T.N Arts College, Dindigul	Member in Board of Studies	07.03.2019
Madurai Kamaraj University, Madurai	Internal member for Academic Audit in the School of Energy, Environment and Natural Resources	03.12.2018
V.V.V college for women, Virudhunagar	Member in the Board of studies in Chemistry PG	04.06.2018
Alagappa University, Karaikudi	External VIVA VOCE examiner for Ph.D. viva-voce examination	26.09.2017
Bharathidasan University	External Examiner to conduct Public- Viva-voce examination	09.09.2017
Sri Ramanas College of Arts and Science for Women, Aruppukottai	Member in Board of Studies	02.05.2017
Mother Theresa University, Kodaikanal	External VIVA VOCE examiner for Ph.D. Thesis Evaluation	14.06.2016

Madurai Kamaraj University, Madurai	External subject expert in committee to recruit project fellows in DST SERB project interview	30.03.2016
V.V.V college for women, Virudhunagar	Alumna in the Board of Studies	04.03.2016
Alagappa University, Karaikudi	External Examiner for the M.Sc Chemistry Examination	21.04.2015
V.V.V college for women, Virudhunagar	Subject Expert in the Board of Studies	23.03.2015
Madurai Kamaraj University, Madurai	Judge in Poster Presentation in International Conference AMPD-2013	17.05.2013
Madurai Kamaraj University, Madurai	External Examiner M.Sc project viva-voce	10.05.2013
Alagappa University, Karaikudi	External Member in Board of Studies	30.04.2013
CECRI, Karaikudi	External Experts to serve in the Research Advisory Committee	25.02.2013
K.L.N college, Madurai	External Experts to serve in the Research Advisory Committee	25.02.2013
Madurai Kamaraj University, Madurai	External Experts to serve in the Technical Advisory Committee	22.02.2013
N.M.S.S.V.N College, Nagamalai, Madurai	External Examiner to conduct I & II M.Sc., Chemistry	21.01.2013
Sri Kaliswari College, Sivakasi.	External Examiner to conduct the II M.Sc. Chemistry Practical examinations of November 2012	26.11.2012
Alagappa University, Karaikudi	External Examiner for M.Sc., Bioelectronics	14.09.2012
Madurai Kamaraj University, Madurai	External Examiner to conduct M.Phil. Chemistry dissertation viva voce examination	23.08.2012
Madurai Kamaraj University, Madurai	Member in selection committee to select a JRF in UGC Meritorious Fellowship	21.03.2012
Pasumpon Muthramlinga Thevar College, Usilampatti	External Examiner for PG Physical Chemistry Practical	24.11.2011
Madurai Kamaraj University, Madurai	Member in selection committee to JRF to SRF in UGC Meritorious Fellowship	21.09.2011
Karpagam University, Coimbatore.	External Examiner to conduct M.Phil., Thesis Evaluation	26.05.2011
PSG College of Arts & Science, Coimbatore	External Examiner to conduct Ph.D. public viva-voce Examination	25.04.2011
Pondicherry University	External Subject Expert to select JRFs in DST-Nano Mission	08.03.2011
Bhrathiyar University, Coimbatore	External Examiner to evaluate Ph.D., Thesis	06.08.2010
Alagappa University, Karaikudi	Member of Board of Studies in Chemistry (DDE)	18.04.2009
Alagappa University, Karaikudi	Member of Board of Studies in B.Sc., Biotechnology	11.12.2008

#### 24. Membership in Recognised Professional Bodies

Name of the Professional Body	International / National	Type of Membership
American Chemical Society	International	Member
ACS Analytical Division	International	Member
ACS Agricultural and Food Chem Division	International	Member
ACS Nano Science Sub-division	International	Member
Royal Society of Chemistry	International	Member
Journal of Nanostructure in Chemistry from Springer publication	International	Peer reviewer
International Journal of Electrochemical Society, Journal of Electro analytical chemistry, Electrochimica Acta, Sensors and Actuators B: Chemical, Biosensors and Bioelectronics, and Journal of colloid and interface Science from Elsevier	International	Peer reviewer
The Indian Science Congress Association	National	Lifetime member

## 25. Languages Known

Languages	Read	Write	Speak
English	Yes	Yes	Yes
Tamil	Yes	Yes	Yes

## 26. Competence in Computer Applications

MS Office, Office automation, Origin software.

## 27. Involvement in Extension Activities other than Academic Works

- Won I<sup>st</sup> Prize in Chess competition on 68th Republic Day Celebration (26.01.2017) held at Madurai Kamaraj University, Madurai.
- Won II<sup>nd</sup> Prize in Badminton-Single on 68th Republic Day Celebration (26.01.2017) held at Madurai Kamaraj University, Madurai.
- Won II<sup>nd</sup> Prize in Badminton-Doubles on 68th Republic Day Celebration (26.01.2017) held at Madurai Kamaraj University, Madurai.

## 28. Any Other Relevant Information

-NA-

## Details of Publications

### 1. Books Published

NA

### 2. Books Edited

NA

### 3. Contribution to Book Chapters

1. Mohanraj T, Shunmuga Nathan S, Shakkthivel P, Vasantha VS\*, **Sensor and Nanotechnology based Diagnostics in the field of Mycobacteriology** (Springer Nature) Under Revision

2. M. J. Angela Lincy, B. Ashok Kumar, **V.S. Vasantha\***, and Varalakshmi. (2015). **“Microbial Fuel Cells: A Promising Alternative Energy Source; Opportunities and Challenges.”** In the Book, R. Navanietha Krishnaraj, Jong-Sung Yu (Eds.), **Bioenergy: Opportunities and Challenges** (pp. 61-85). Apple Academic Press.  
<https://doi.org/10.1201/b18718-10>
3. Periyasamy Ananthappan, Selvam Seenaa, Chellakannu Arunbalaji, **Vasantha Vairathevar Sivasamy\***, Mariakuttikan Jayalakshmi. (2022). **“Electrochemical Sensors for the Detection of Food Adulterants in Miniaturized Settings”**. In the Book, Pranjal Chandra, Parmjit S. Panesar (Eds.), **Nano sensing and Bioanalytical Technologies in Food Quality Control**, Singapore, Springer.  
[https://doi.org/10.1007/978-981-16-7029-9\\_7](https://doi.org/10.1007/978-981-16-7029-9_7)
4. Shenbagavalli Kathiravan, Karthika Lakshmi Serverayan, Ellairaja Sundaram, **Vasantha Vairathevar Sivasamy\***. **“Fluorescent Biosensing and Chemosensing Strategies for Food Quality Assessment”**. In the Book, **Nano sensing and Bioanalytical Technologies in Food Quality Control**. Singapore, Springer.  
[https://doi.org/10.1007/978-981-16-8333-6\\_5](https://doi.org/10.1007/978-981-16-8333-6_5)

#### 4. Editor of Conference/Seminar Proceedings

- i. Three-Day International E-Conference On “Electrochemical Techniques and their Applications in the Development of Sensors” (ETADS-22) 20-22<sup>nd</sup>, January-2022
- ii. Indo- Malaysian Two-Day International E-Conference On “Recent Trends in Natural Products Research and their Applications” (RTNPRA-21) 16-17<sup>th</sup> September, 2021

#### 5. Research Publications

##### 5.1. UGC-CARE Listed Journals

NA

##### 5.2. Other Refereed Journals

NA

##### 5.3. Papers Published in Conference Proceedings

1. Periyasamy Ananthappan, Thirunavukkarasu Thennarasu & Vairathevar Sivasamy Vasantha., (2021), **Synthesis of NiO/N-Reduced Graphene oxide and its Application for Development of Enzyme free Glucose Sensor**, *International Conference on Recent Advances in Interdisciplinary Areas of Chemical Sciences*, V.V.Vanniaperumal College for Women, Virudhunagar, Tamil Nadu, India, 24.07.2021, 356-369.

##### 5.4. Papers Presented in Conferences / Seminars

###### 5.4.1. International

1. **V.S. Vasantha\***, Oral presentation at **Sunway University** on “International Conference on emerging Materials for Sustainable Energy and Environment-2022” Sunway university, Malaysia, 13.12.2022 to 15.12.2022

2. **V.S. Vasantha\***, The Effect of Zr-addition on the corrosion properties of Ni-Nb-based amorphous alloys in simulated PEMFC condition, The 4<sup>th</sup> International Symposium Marine Biotechnology and Advance Materials Marine Biotechnology, Kangnung National University, Gangnung, Korea, June 12,13-2008.
3. **V.S. Vasantha\***, Oral Presentation on “Corrosion properties of (Ni<sub>60</sub>Nb<sub>40</sub>)<sub>95</sub>X<sub>5</sub> [X= Zr, Mo, Ti, Pd] Metallic Glasses In Stimulated PEMFC”, The 13th International Conference on Rapidly Quenched & Metastable Materials (RQ13), Technical University of Dresden (TU), Dresden, Germany, 24.08.2008- 29.08.2008

#### 5.4.2. *International held within India*

1. S. Karthika Lakshmi, Ellairaja Sundaram, **V.S. Vasantha\***, Colorimetric Detection of Dopamine using N<sup>1</sup>-(pyrene-1-ylmethylene) benzene-1, 2- diamine/Triiodide ions conjugates in Human Blood Serum, Colorimetric Detection of Dopamine using N<sup>1</sup>-(pyrene-1-ylmethylene) benzene-1, 2- diamine/Triiodide ions conjugates in Human Blood Serum, School of Chemistry, Madurai Kamaraj University, Madurai, Tamil Nadu, India & BioSES Research Interest Group, Faculty of Science and Marine Environment, University Malaysia Terengganu, Malaysia, Sep, 16-17, 2021
2. M. Karthikeyan, M., Dhinesh Kumar, G. Kaniraja 1, P. Ananthappan., **V. S. Vasantha\*** and C. Karunakaran\*, Sensitive and Selective Determination of Norepinephrine by Electrochemical Sensor Using Molecularly Imprinted Poly(3- Amiophenylboronic Acid, Indo- Malaysian Two-Day International E-Conference on “Recent Trends in Natural Products Research and their Applications” (RTNPRA-21), School of Chemistry, Madurai Kamaraj University, Madurai, Tamil Nadu, India & BioSES Research Interest Group, Faculty of Science and Marine Environment, Universiti Malaysia Terengganu, Malaysia, Sep, 16-17, 2021.
3. G. Kaniraja, M. Karthikeyan, M. Dhinesh Kumar , P. Ananthappan , K. Arunsunaikumar , **V.S. Vasantha\***, C. Karunakaran \*, Cytochrome c electrochemical detection using a molecularly imprinted poly(3, 4- ethylenedioxythiophene) prepared on a disposable dual screen-printed electrode, Indo- Malaysian Two-Day International E-Conference on “Recent Trends in Natural Products Research and their Applications” (RTNPRA-21), School of Chemistry, Madurai Kamaraj University, Madurai, Tamil Nadu, India & BioSES Research Interest Group, Faculty of Science and Marine Environment, Universiti Malaysia Terengganu, Malaysia, Sep, 16-17, 2021.
4. K. Shenbagavalli, & **V.S. Vasantha\***, Simple and Fast Protocol for Synthesis of 2-amino 4 -(4 formylphenyl) 4H chromene 3 carbonitrile to develop an Optical Immunoassay for Quantification of Botulinum neurotoxin type F, International Conference on Nano science and Nanotechnology (Virtual Conference), SRM University, Chennai, February 01-03, 2021
5. S. Karthika Lakshmi, S. Ellairaja, & **V.S. Vasantha\***, A Greener & Label Free Optical Biosensing of Insulin in Neat Blood Serum, 3<sup>rd</sup> International Conference Of Materials And Technology-Synthesis Processing And Application 2020, Department of Physics, SRNM college, Sattur-626203, March, 13,14-2020.
6. P. Ananthappan S. Sangeetha A. Sheik Mydeen, & **V.S. Vasantha\***, Doping of Nitrogen and Sulphur in Reduced Graphene Oxide using O-aminothiophenol for Simultaneous Electrochemical Detection of Pb, Cd and Zn, International Conference

- on RECENT TRENDS in CHEMISTRY AND BIOSECINCES (ICRTCB 2019), Madurai Kamaraj University, Madurai, May,16,17-2019
7. K. Shenbagavalli, & **V.S. Vasantha\***, Simple and selective Optical Biosensor Using the Direct Detection of Ascorbic Acid, International Conference on Research Initiatives in Chemistry for Sustainable Development (RICS-2019), March,18, 19-2019.
  8. S. Girija, P. Ananthappan, **V.S. Vasantha\***, Sujin P. Jose, Simultaneous Detection of Dopamine and Uric Acid Using Stannic Oxide Doped Polypyrrole/Reduced Graphene Oxide Nanocomposite, International Conference on Nanomedicine (Icon-2019), Mku, Madurai- 625 021, Madurai Kamaraj University, Madurai, Feb, 25,26- 2019.
  9. P. Nandhakumar, **V.S. Vasantha\***, 5,6,7- trihydroxy flavone isolated from *Oroxylum indicum*, a potent quorum sensing inhibitor against SarA protein in *Staphylococcus aureus*, International Conference on Phytomedicine (ICPM-2018), Bharathiyar University, Coimbatore, Aug, 29-31,2018.
  10. P. Nandhakumar, **V.S. Vasantha\***, Ursolic acid from *pergulariadaemia*, potent quorum sensing inhibitor against *candida albicans*, International Conference on Synthetic Materials for Science and Engineering Applications, M. Kumarasamy College of Engineering, Karur, Apr, 11, 2018.
  11. K.Balaji viswanath, N.Krithiga, A.Jayachitra, A.Arlin Jose Amali & **V. S. Vasantha\***, Enzyme Free And Sensitive Detection *Pseudomonas Aeruginosa* Labeled with Ferrocene using Zif-8/Aunps Platform, International Conference On Advance Function Materials For Energy, Environment & Biomedical Application, Madurai Kamaraj University, Madurai, Dec,11,12- 2017.
  12. S.Sheik Mydeen, M.Kottaisamy & **V. S. Vasantha\***, Prepared Activated Carbon Doped With ZnO For Photocatalytic Degradation Methylene Blue On UV Light, International Conference On Energy, Environment & Advanced Matrial For A Sustainable Future (ICEEAMSF-2017), Department of Physics and Chemistry, May, 22-24, 2017.
  13. K. Balaji Viswanath, A. Hemadevi & **V. S. Vasantha\***, Zinc Imidazole Framework/ Gold Nanoparticle Composite Based Electrochemical Sensor for Determination Of Hydrazine, Eleventh International Symposium on Advances in Electrochemical Science and Technology, CECRI Karaikudi, December 14-15, 2015.
  14. R. Deepa, R. Gandhidasan & **V. S. Vasantha\***, Properties of Different Flavanoids and Their Bindings and Cleavage Properties With DNA: Electrochemical Approach, International Conference on Recent Advances in Materials and Chemical Sciences, The Gandhigram Rural Institute Deemed University, Dindigul, December 21-22, 2015.
  15. S. Sheik Mydeen, M. Kottaisamy & **V. S. Vasantha\***, Effect of solvent and surfactant on the morphological, optical and photo catalytic properties of ZnO nanoparticles prepared by Co-precipitation method, International Conference on Materials and Characterization Techniques, Gandhigram University, Dindigul, December 14-15,2015.
  16. J.Samseya ,R.Srinivasan, & **V.S.Vasantha\*** Fabrication Of MWCNT/Nf/Au Microarray Electrochemical Based Sensor For Dopamine Determination, International Conference on "Recent Advances in Textile and Electrochemical Science, Department of Industrial Chemistry, Alagappa University, Karaikudi. March 21-23, 2013.

17. R. Deepa, A. Daniel Arul Raj, R. Gandhidasan & **V. S. Vasantha\***, Determination of Antioxidant Capacity of Flavonoids Extracted from Medicinal Plants by Electrochemical and UV-Vis Techniques, International Conference on "Recent Advances in Textile and Electrochemical Science, Department of Industrial Chemistry, Alagappa University, Karaikudi, March 21-23, 2013.
18. A. Daniel Arulraj, M. Vijayan & **V. S. Vasantha\***, Synthesis of MWCNT/SDS/Polypyrrole Composite and its Application for Uric Acid Determination, International Conference on "Recent Advances in Textile and Electrochemical", Department of Industrial Chemistry, Alagappa University, Karaikudi, March 21-23, 2013.
19. R. Radha, **V. S. Vasantha\***, KasiPitchumani, Chemical Constituents Of Bauhinia Tomentosa and Their Biological Studies, International Conference on Biological Inorganic Chemistry (ICBIC 2013), Periyar University, Salem., June 21-23, 2013.
20. S. Ellairaja, & **V. S. Vasantha\***, A Simple Turn-On Chemosensor for the Sensitive and Selective Detection of Cadmium Ions in Physiological Conditions, International Conference on Recent Advances in Materials and Chemical Sciences, The Gandhigram Rural Institute Deemed University, Dindigul, December 14-15, 2013.
21. **V.S. Vasantha \***, Development of PEDOT based Material for Sensing of Dopamine and Ascorbic Acid, International Colloquium on Emerging Biotechnologies in Agriculture, Animal Health and Protectivity (ICEB-2009), School of Bioscience, Alagappa University, Karaikudi, Feb, 22-2009.

#### 5.4.3. National

1. **Vairathevar Sivasamy Vasantha\***, Role of Electrocatalysis in the Development of Biosensors, One Day National Seminar on Role of Catalyst in Chemistry, Department of Chemistry & Research Centre, Kamaraj College Thoothukudi - 628003 Tamil Nadu, April 22, 2022.
2. Periyasamy Ananthappan, Natarajan Manivannan, **Vairathevar Sivasamy Vasantha\***, Simultaneous Electrochemical Detection of Nitrite and Sulphide Ions using Pedot/B-Cd Modified GCE One Day National Seminar on Role of Catalyst in Chemistry, Department of Chemistry & Research Centre, Kamaraj College Thoothukudi - 628003 Tamilnadu, April 22, 2022.
3. Selvam Seena, Vairathevar **Sivasamy Vasantha\***, Two-dimensional Transition Metal Carbided-Produced by Electrochemical Etching of MAXPhase, One Day National Seminar on Role of Catalyst in Chemistry, Department of Chemistry & Research Centre, Kamaraj College Thoothukudi - 628003 Tamil Nadu, April 22, 2022.
4. Natarajan Manivannan, Adhidesh S. Kumawat and **V.S. Vasantha\***, Investigation Oxygen reduction reaction on Synthesized Pt-Fe/C catalyst and comparison with Pt/C, One Day National Seminar on Role of Catalyst in Chemistry, Department of Chemistry & Research Centre, Kamaraj College Thoothukudi - 628003 Tamil Nadu, April 22, 2022.
5. S. Karthika Lakshmi, Ellairaja Sundaram, K. Govindan, Prakash Latchathipathi, **V.S. Vasantha\***, First Optical Immunosensor for the Detection of Lysteria Monocytogene in Food Matrixes, Two-Day National E-Conference on Modern Trends in Chemistry-MTC-27, Postgraduate and Research Department of Chemistry, Vivekananda College, Tiruvedakam West, Madurai-625 234, Nov, 09-10, 2021.
6. K. Shenbagavalli, & **V.S. Vasantha\***, Tuning of Aggregation Induced Emission behavior in Biocompatible AIEgens for cell imaging studies, National Conference on Analytical and

- Materials Chemistry for everyday Life (AMC-21), Theivanai Ammal College for Women, Villupuram, Feb 03-2021.
7. P.Ananthappan, S.Sivaranjani & **V.S.Vasantha\***, Enhancing Electrochromic Property of Polyaniline/SDS Composites through Dedoping by Phosphate Ions, National conference on “Current Innovations of Chemistry to Solve Social and Industrial Problems”, Department of Chemistry, Saiva Bhanu Kshatriya College, Aruppukottai-626101, Feb, 21- 2020.
  8. P.Ananthappan, M.Prasanna,& **V.S.Vasantha\***, Enhancing The Electrochemical Deposition p-NPA In Ethanol/Water Solvent Mixture, National conference on “Current Innovations of Chemistry to Solve Social and Industrial Problems”, Department of Chemistry, Saiva Bhanu Kshatriya College, Aruppukottai-626101, Feb, 21- 2020.
  9. P.Nandhakumar & **V. S. Vasantha\***, 8-Hydroxy Flavone Isolated from *Indigofera Spalathodes*: A Potent  $\alpha$ -Amylase and  $\alpha$ -Glucosidase Inhibitor, National Conference on Emerging Trends in Material, Medicinal and Environmental Chemistry, Karpagam University, Coimbatore, March, 8,9 -2018.
  10. R. Deepa & **V. S. Vasantha\***, Elucidation of Biofilm Inhibition in Different Clinical Bacterial Isolates Using Naturally Isolated Compounds from *Albizia Odoratissima*, National Conference on Emerging Trends in Material, Medicinal and Environmental Chemistry, Karpagam University, March, 8,9 -2018.
  11. P.Venmathy, J. Jeyasundari, P.Nandhakumar, & **V. S. Vasantha\***, Investigated the Interaction between Terpenoids and Betulinic and ursolic Acid Binding with (CT-(DS) DNA) was studied by Spectroscopic, Electrochemical and Molecular Modelling Approach, National Conference on Emerging Trends in Material, Medicinal and Environmental Chemistry, March, 8,9 -2018.
  12. P. Nandhakumar, & **V.S. Vasantha\***, Inhibition of Aldose reductase by Taraxerol, a triterpenoid from *Pergulariadaemia.*, National Conference on Challenges in Energy Conversion and Environmental Applications, Bannariamman Institute of Technology, Erode, Mar, 23,24- 2018.
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## 6. Conferences / Seminars / Workshops / Webinars Attended

1. **V.S. Vasantha\***, Oral presentation at **Sunway University** on “International Conference on emerging Materials for Sustainable Energy and Environment-2022” Sunway university, Malaysia, 13.12.2022 to 15.12.2022
2. **V.S. Vasantha**, “One day workshop on MXENE course” at **Sunway University**, Malaysia, 16.12.2022.
3. **V. S. Vasantha\***, Role of Electrocatalysis in the Development of Biosensors, One Day National Seminar on Role of Catalyst in Chemistry, Department of Chemistry & Research Centre, Kamaraj College Thoothukudi - 628003 Tamil Nadu, April 22, 2022.
4. **V.S. Vasantha \***, Corrosion Properties of Ni-Nb Alloys in PEM in Fuelcell Conditions, National Seminar on Recent Advances In Textile And Electrochemical Sciences (RATES-2008), Alagappa University, Karaikudi, December,19,20-2008.
5. **V.S. Vasantha\***, The Effect of Zr-addition on the corrosion properties of Ni-Nb-based amorphous alloys in simulated PEMFC condition, The 4<sup>th</sup> International Symposium Marine Biotechnology and Advance Materials Marine Biotechnology, Kangnung National University, Gangnung, Korea, June 12,13-2008.
6. **V.S. Vasantha\***, Oral Presentation on “Corrosion properties of  $(Ni_{60}Nb_{40})_{95}X_5$  [X= Zr, Mo, Ti, Pd] Metallic Glasses In Stimulated PEMFC”, The 13th International Conference on Rapidly Quenched & Metastable Materials (RQ13), Technical University of Dresden (TU), Dresden, Germany, 24.08.2008- 29.08.2008

## 7. Details of Deposits in CCDC, PDB, etc.

No	Name of Deposit	Reference No.	Date of Deposition
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