



DR. V. DHARUMAN
ASSISTANT PROFESSOR

Contact

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Academic Qualifications: M.Sc., B.Ed., Ph.D.

S.No	Degree	College and University	Year	Subject
1	B.Sc	University of Madras	1989	Chemistry
2	M.Sc	University of Madras	1991	Chemistry
3	B.Ed	University of Madras	1992	Physical Sciences
3	Ph.D	University of Madras	2002	Chemistry

Teaching Experience: 8.5 Years

Designation and Research Institution	From	To	Duties and Responsibilities
Assistant Professor	2008	Till date	Teaching and research in the field of Bioelectronics and Biosensors

Research Experience: 6.5 Years

Designation	Research Institution	From	To
Post-doctoral Research Scientist	Fraunhofer Institute for Silicon Technology, GERMANY	17 th Sep. 2001	30 th Nov. 2004 (3 y 2 months)
Post-doctoral Research Scientist	Pohang University of Science and Technology SOUTH KOREA	13 th Dec. 2004	10 th Oct. 2006 (1 y 10 months)
Research Scientist	Advanced Institute of Industrial Science and Technology (AIST), JAPAN	16 th Oct 2006	31 st March. 2007 (6 months)
Post-doctoral Research Scientist	Pohang University of Science and Technology SOUTH KOREA	8 th Aug. 2007	15 th June 2008 (11 Months)

Additional Responsibilities

1. Deputy Director for University Scientific Instrumentation Centre
2. Dept. NAAC coordinator
3. Dept. Cultural club coordinator

Areas of Research

Chemistry/Electrochemistry/ Diabetic, Cancer biosensors development using, DNA, antibody (immunosensors) and neurological disorder sensors

Research Supervision / Guidance

	Program of Study	Completed	Ongoing
Research	Ph.D.	4	3
	M.Phil.	2	---
Project	PG	20	1

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books Chapters
27	46	3	49	3

Cumulative Impact Factor (as per JCR) :	119.24
h-index	: 12
i10 index	: 16
Total Citations	: 504

Funded Research Projects

Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	UGC	2009	2011	Multi Component Thiol alkane Diluent - DNA Mixed Monolayers for Efficient Label Free Electrochemical Detection of Cancer DNA-P53 Protein interactions	9.8
2	DST	2010	2013	Liposome mediated cancer DNA sensing of electrochemical and pizeo electric techniques and DNA transfection studies	25.44
3	CSIR	2010	2013	Development of Electrochemical immunosensors for simultaneous detections and discriminations of different food pathogenic bacterial microbes on microgold arrays	18.16
4	AURF	2010	2011	Electrochemical Detection of Antibody Prostate Specific Antigen Interactions Using Gold Transducers	0.64
5	ICMR	2013	2016	Development of Simple, Reagentless, Renewable Glucose Sensors Using Nano Ruthenium oxide- nono pore Polymer - Nano Au Composite Films	32.79

Ongoing Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	DST	2015	2018	Studies on membrane proteins interactions on liposome-DNA-gold nanoparticle composite tethered on gold transducer for biosensing	44.7
2	UGC	2015	2018	Development of novel graphene and metal nano composite films and characterization for label free electrochemical DNA-protein sensing	14.65

Distinctive Achievements / Awards

1. Alagappa Excellence Award for Research 2015-2016
2. Best poster award, Indo-Japan workshop on Biomolecular Electronics & Organic Nanotechnology for Environment Preservation (IJWBME 2013), 13-15th December 2013, Delhi Technological University, Delhi, India
3. Young Biomedical scientist Research Fellowship by Indian Council of Medical Research, India, for the year 2012-2013
4. Article Gold nano particle decorated graphene core first generation PAMAM dendrimer for label free electrochemical DNA hybridization sensing, Biosens. Bioelectr., 31 (2012) 406-412 . Ranked 16th on the TOP 25 articles in the Journal of Biosensors and Bioelectronics, March 2012
5. Research Scientist , AIST, Japan, Oct.2006 – March 2007
6. Brain Korea Post doctoral research fellowship, December 2004
7. Fraunhofer Research Achievement Award, from Fraunhofer Gesellschaft, Leonrodstrasse 54, D 80636 München, Germany, 2002
8. Fraunhofer Research Scientist Fellowship September 2001 – Nov. 2004
9. Senior Research Fellow, UGC, India April. 1998-March. 2000
10. Junior Research Fellow, UGC, New Delhi, India, April. 1995-March. 1997
11. Graduate Aptitude Test in Engineering (GATE'93) with 94.12 percentile. Conducted jointly by Indian Institute of Technology (IIT) and Indian Institute of Science (IISc) 1993

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 4

1. Organizing secretary in National Seminar on Advancements in Bioelectronics and Biosensors, 19th & 20th March, 2009, Alagappa University, Karaikudi 630 003, India
2. National Seminar on Frontiers in Nanomaterials and Biosensors 4th & 5th March, 2010, Alagappa University, Karaikudi 630 003, India
3. National conference on Recent Advancements in Nanomaterials for Sensor Applications (NANOSE-12), 8th & 9th March, 2012, Alagappa University, Karaikudi 630 003, India
4. Organized one day workshop on Metrohm Autolab Electrochemical Instruments for biosensor, energy and corrosion applications , 16-02-2015, Alagappa University, Karaikudi

Events Participated

Conferences / Seminars / Workshops:

1. National seminars : 10
2. Workshops : 5

Other Training Programs

1. Interdisciplinary course: Nanoscience and Technology, organized by University of Madras from 11.11.2009 to 01.12.2009.
2. Orientation course : organized by Madurai Kamaraj University, from 30.05.2013 to 26.06.2013
3. Interdisciplinary course : Life sciences , organized by Bharathidasan University, Trichy , 03.03.2016 to 23.03.2016.

Overseas Exposure / Visits

1. South Korea, Department of Chemistry, Biotech Center, Pohang University of Science and Technology, Oct. 2012 - May 2013 (Immunosensors for estrogen detection) & August 2007 – June 2008, Dec. 2004-Oct. 2006 (Postdoctoral Research – Development of label free DNA sensing by electrochemical methods)
2. Japan, Diamond Research Centre, Advanced Institute of Industrial Science and Technology, Tsukuba October 2006 – March 2007 (Research Scientist Staff – Diamond electrode based DNA sensors).

3. Germany, Department of Biotechnical Micro systems, Fraunhofer Institute of Silicon Technology, Sept.2001- Nov.2004 (Postdoctoral Research Scientist worked on label free DNA sensing)

Membership in

Professional Bodies

1. Life Member: Indian Science Congress
2. Life Member: Nanoscience and Technology Society of India, South chapter
3. Regular Member: American Chemical society (ACS), India chapter

Academic Bodies (such as Board of Studies etc.,)

1. Board of studies Member in Bielelectronics and Biosensor (PG)
2. Board of studies Member in Bielelectronics (PG)
3. Board of studies Member in Electronics for UG, OPG and M.Phil

Resource persons in various capacities

Number of Invited / Special Lectures delivered: 27

Others

1. No. of PhD Thesis evaluated : 6
2. No. of PhD Public Viva Voce Examination conducted : 4

Recent Publications

1. K. P. Ganesan, N. Anandhan, V. Dharuman, P. Sami, R. Panneerselvam, T. Marimuthu (2017)“Electrochemically modified crystal orientation, surface morphology and optical properties using CTAB on Cu₂O thin films”, Results in Physics, 7, 82, (Impact Factor: 1.3).
2. P. N. Manikandan, H. Imran, V. Dharuman, (2016) “Direct glucose sensing and biocompatible properties of zinc oxide- multiwalled carbon nanotube - poly (vinyl chloride) ternary composite”, Anal. Methods, 8, 2691-2697. (Impact Factor: 1.9)
3. M. Bhuvana, V. Dharuman, (2016) “Inchain lengths and head groups on tethering of liposome-gold nanoparticle on gold surface for electrochemical DNA sensing and gene delivery” Sensors and Actuators B: Chemica, 223, 157–165(Impact Factor: 4.7)

4. H. Imran, P. N. Manikandan, V. Dharuman "Facile and green synthesis of graphene oxide by electrical exfoliation of pencil graphite and gold nanoparticle for non-enzymatic simultaneous sensing of ascorbic acid, dopamine and uric acid" RSC Advances, 5 (2015) 63513-63520 (Impact Factor: 3.2)
5. V. Dharuman, C. Anjalidevi, P. N. Manikandan, H. Imran, (2015) "Gold nanoparticles supported on zirconium, tin and ruthenium oxides for reagentless electrochemical sensing of hydrogen peroxide" Anal. Methods, 7, 3454-3460. (IF 1.9)
6. G. Vijayaprasath, R. Murugan, J. Shankara Narayanan, V. Dharuman, G. Ravi, Y. Hayakawa, (2015) Glucose sensing behavior of cobalt doped ZnO nanoparticles synthesized by co-precipitation method, Journal of Materials Science: Materials in Electronics 7, 4446-4450. (Impact Factor: 1.9)
7. M. Bhuvana, V. Dharuman, (2014) "Construction of Spherical Liposome on Solid Transducers for Electrochemical DNA Sensing and Transfection", Appl Biochem Biotechnol 174, 1137-1150. (Impact Factor: 1.9)
8. M. Bhuvana, V. Dharuman, (2014) "Tethering of spherical DOTAP liposome gold nanoparticles on cysteamine monolayer for sensitive label free electrochemical detection of DNA and transfection", Analyst 139, 2467-2475 (Impact Factor: 4.01)
9. J. Shankara Narayanan, M. Bhuvana, V. Dharuman, (2014) "Sandwiching spherical 1, 2-dioleoyltrimethyl ammoniumpropane liposome in gold nano particle on solid transducer for electrochemical ultrasensitive DNA detection and transfection", Biosensors and Bioelectronics, 58, 326-332, (Impact Factor: 7.47)
10. S. Radhakrishnan, C. Sumathi, Ahmad Umar, Sang Jae Kim, J. Wilson, V. Dharuman, (2013), "Polypyrrole- poly(3,4-ethylenedioxythiophene)-Ag (PPy-PEDOT-Ag) nanocomposite films for label-free electrochemical DNA sensing", Biosensors and Bioelectronics, 47, 133-140. (Impact Factor: 7.47)
11. V. Dharuman, J. H. Hahn, K. Jayakumar and W. Teng, (2013) "Electrochemically reduced graphene-gold nano particle composite on indium tin oxide for label free immuno sensing of estradiol", Electrochimica Acta, 114, 590- 597 (Impact Factor: 4.08)
12. C. Anjalidevi, V. Dharuman, J. Shankara Narayanan, (2013), "Non enzymatic hydrogen peroxide detection at Ruthenium oxide-gold nano particle- Nafion modified electrode", Sensors and Actuators B Chemical 182, 256- 263. (Impact Factor: 4.7)
13. S. Radhakrishnan, C. Sumathi, V. Dharuman, J. Wilson, (2013), "Polypyrrole nanotubes-polyaniline composite for DNA detection using methylene blue as intercalator", Analytical Methods, 5, 1010-1015 (Impact Factor: 1.9)
14. S. Radhakrishnan, C. Sumathi, V. Dharuman, J. Wilson, (2013) "Gold nanoparticles functionalized poly(3,4- ethylenedioxythiophene) thin film for highly sensitive label free DNA detection", Analytical Methods, 5, 684-689. (Impact Factor: 1.9)
15. J. Shankara Narayanan, C. Anjalidevi, V. Dharuman, (2013) "Nonenzymatic glucose sensing at ruthenium dioxide-poly(vinyl chloride)-Nafion composite electrode", Journal of Solid State Electrochemistry 17, 937-947. (Impact Factor: 2.23)
16. M. Bhuvana, J. Shankara Naryanan, V. Dharuman, W. Teng, J. H. Hahn, K. Jayakumar, (2013), "Gold Surface Supported Spherical Liposome - Gold Nano Particle Nano Composite for Label Free DNA Sensing, Biosensors and Bioelectronics", 41, 802-808. (Impact Factor: 7.4)
17. J. Wilson, S. Radhakrishnan, C. Sumathi, V. Dharuman, (2012), "Polypyrrole-Polyaniline - Au (PPy-PANi-Au) nano composite films for label free electrochemical

- DNA sensing”, *Sensors and Actuators B Chemical* 171, 216-222. (Impact Factor: 4.75)
18. K. Jayakumar, R. Rajesh, V. Dharuman, R. Venkatasan, J. H. Hahn, S. Karutha Pandian, (2012), “Gold nano particle decorated graphene core first generation PAMAM dendrimer for label free electrochemical DNA hybridization sensing”, *Biosensors and Bioelectronics*, 31, 406-412. (Impact Factor: 7.4)
 19. V. Dharuman, K. Vijayaraj, S. Radhakrishnan, T. Dinakaran, J. Shankara Narayanan, M. Bhuvana, J. Wilson, (2011) “Sensitive label-free electrochemical DNA hybridization detection in the presence of 11- mercaptoundecanoic acid on the thiolated single strand DNA and mercaptohexanol binary mixed monolayer surface”, *Electrochimica Acta*, 56, 8147– 8155 (Impact Factor: 4.08)
 20. V. Dharuman, B. Y. Chang, S. M. Park, J. H. Hahn, (2010), “Ternary Mixed Monolayers for Simultaneous DNA Orientation Control and Surface Passivation for Label Free DNA Hybridization Electrochemical Sensing”, *Biosensors and Bioelectronics*, 25(2010) 2129-2134. (Impact Factor: 7.4)
 21. V. Dharuman, J. H. Hahn, (2008), “Label free electrochemical DNA hybridization discrimination effects at the binary and ternary mixed monolayers of single stranded DNA/diluent/s in presence of cationic intercalators”, *Biosensors and Bioelectronics*, 23, 1250-1258. (Impact Factor: 7.4)
 22. V. Dharuman, J.H.Hahn, (2007) “Effect of short chain alkane diluents on the label free electrochemical DNA hybridization discrimination at the HS-ssDNA/diluent binary mixed monolayer in presence of cationic intercalators”, *Sensors and Actuators B Chemical*, 127 536-544. (Impact Factor: 4.75)
 23. V. Dharuman, E. Nebling, T. Grunwald, B. Elsholz, J. Albers, L. Blohm, R. Wörl, R. Hintsche, (2006), “DNA hybridization detection on Electrical Micro Arrays using Coulostatic Pulse Technique”, *Biosensors and Bioelectronics*, 22, 744-751. (Impact Factor: 7.4)
 24. V. Dharuman, K.Chandrasekara Pillai, (2006), “RuO₂ electrode surface effects on electrocatalytic oxidation of glucose”, *Journal of Solid state Electrochemistry*, 10, 967-979. (Impact Factor: 2.23)
 25. V. Dharuman, T. Grunwald, E. Nebling, J. Albers, L.Blohm, R. Hintsche, (2005) “Labelfree impedance detection of oligonucleotide hybridization on interdigitated ultramicroelectrodes using electrochemical redox probes”, *Biosensors and Bioelectronics*, 21, 645-654. (Impact Factor: 7.4)
 26. J. M. Zen, H. F. Wang, A. Senthil Kumar, H. Y. Yang, V. Dharuman, (2002) “Preconcentration and electroanalysis of copper(II) in ammoniacal medium on nontronite/cellulose acetate modified electrodes”, *Electroanalysis*, 14, 99. (Impact Factor: 2.50)
 27. J. M. Zen, D. M. Tsai, A. Senthil Kumar, V. Dharuman, (2000), “Amperometric determination of ascorbic acid at a ferricyanide-doped tosflex-modified electrode”, *Electrochemical Communication* 2, 782-785. (Impact Factor: 1.38)
 28. V. Dharuman, K. Chandrasekara Pillai, (1999), “Oxidation of D-glucose at RuO₂-PVC paste electrode in 1M NaOH-Dependence of oxide preparation temperature”, *Bulletin of Electrochemistry* 15, 476. (Impact Factor: 0.24)
 29. V. Dharuman, K. Chandrasekara Pillai, (1997), “Glucose oxidation at Pt/PVC-bonded RuO₂ composite electrode”, *Indian Journal of Chemical Technology*, 4, 25. (Impact Factor: 0.58)

30. K. Chandrasekara Pillai, A. Senthilkumar, V. Dharuman, (1996), "Adsorption of ruthenium(II) bipyridyl at the MnO₂/solution interphase", *Bulletine of Electrochemistry* 12, 432. (Impact Factor: 0.24)

Contribution in book chapters

1. R. Hintsche, B. Eisholz, G. Piechotta, R. Woerl, C. G. J. Schabmueller, J. Albers, V. Dharuman, E. Nebling, A. Hanisch, L. Blohm, F. Hofmann, B. Holzapfl, A. Frey, C. Paulus, M. Schienle, R. Thewas, (2006), 'Fully Electrical Microarrays', in *Perspectives in Bioanalysis*, Ed. Paesche, Palecek, Elsevier, 246-277, ISBN: 978-0-444-52223-8
2. V. Dharuman, J. H. Hahn, (2012), "Label free Electrochemical sensing of DNA hybridization for Cancer Analysis" in *Biosensors and Molecular Technologies for Cancer Diagnostics*, Keith E. Herold, Avraham Rasooly CRC press, Taylor & Francis Group. 671-692
3. K. Jayakumar, R. Rajesh, V. Dharuman, R. Venkatesan, (2013) "Graphene -PAMAM Dendrimer -Gold nano particle composite for electrochemical DNA hybridization Detection", in *Nucleic Acid detection Methods and Protocols*, Ed. Dimitry M. Kolpashchikov and Yulia V. Gerasimova, Humana Press, USA, PP 201-220, ISBN, 978-1-62703-534-7

Conferences

1. P. N. Manikandan, H. Imran, V. Dharuman, (2016) "Biocompatible Zinc oxide-Multiwalled carbon nanotube-poly(vinyl chloride) composite for glucose sensing", International Conference on Recent trends in Microbiology-2016, Alagappa University,
2. M. Karthikeyan, N. Anandhan, A. Amali Roselin, V. Shanmugapriya, G. Gopu, V. Dharuman, G. Ravi, (2016) "Growth and characterization of chemical bath deposited plumbous oxide thin films", International conference on Materials Science & Technology, University of Delhi, Delhi
3. A. Amali Roselin, N. Anandhan, M. Karthikeyan, P. Rajapandi, G. Gopu, V. Dharuman, G. Ravi, (2016), "Effects of precipitating agents on surface texture and magnetic properties of Dy₂O₃ nanopowder". International conference on Materials Science & Technology, University of Delhi, Delhi
4. K. P. Divya, V. Dharuman, (2016) "Studies of self-assembled binary mixed monolayer for label free DNA hybridization electrochemical sensing on liposome-gold nanoparticle composite tethered on gold transducer" International conference on Frontier Areas in Chemical Technologies, Alagappa University
5. N. Dhanalakshmi, V. Dharuman, (2016), "The behavior of binary lipid on different chain length thiol monolayer modified gold electrode" International conference on Frontier Areas in Chemical Technologies, Alagappa University
6. P.N. Manikandan, V. Dharuman, (2016), "Dynamic sensing of L-dopa using zinc oxide-reduced graphene oxide film", International conference on Frontier Areas in Chemical Technologies, Alagappa University
7. H. Imran, V. Dharuman, (2016), "Dynamic sensing of ascorbic acid, dopamine and uric acid at electrochemically exfoliated graphene oxide-gold nanoparticle by electrochemical methods" International conference on Frontier Areas in Chemical Technologies, Alagappa University
8. M. Karthikeyan, N. Anandhan, V. Dharuman, G. Gopu, A. Amali Roselin, S. Viswanathan, (2016), "Temperature dependant anatase titanium dioxide thin film prepared by electrodeposition technique", International conference on Frontier Areas in Chemical Technologies, Alagappa University
9. C. Suganya, N. Anandhan, M. Karthikeyan, V. Dharuman, G. Gopu, A. Amali Roselin, S.

- Viswanathan, (2016), "A novel cobalt doped Dy₂O₃ nanoparticle synthesized by coprecipitation method." International conference on Frontier Areas in Chemical Technologies, Alagappa University
10. J. Umadevi, N. Anandhan, V. Dharuman, G. Gopu, M. Karthikeyan, A. Amali Roselin, C. Suganya, (2016), "Structural and morphological properties of polypyrrol doped Sb₂S₃ thin film" International conference on Frontier Areas in Chemical Technologies, Alagappa University
 11. D. Janani, N. Anandhan, V. Dharuman, G. Gopu, M. Karthikeyan, A. Amali Roselin, K. P. Ganesan, (2016), "Influence of Sm on structural and optical properties of Bi₂S₃ thin using SILAR method." International conference on Frontier Areas in Chemical Technologies, Alagappa University
 12. K. Rajeswari, N. Anandhan, V. Dharuman, A. Amali Roselin, M. Karthikeyan, G. Gopu, (2016), "The roles of protic solvents on CdS thin films prepared by chemical bath deposition technique" International conference on Frontier Areas in Chemical Technologies, Alagappa University
 13. K. P. Divya, V. Dharuman (2015) "Effect of binary lipid and gold nanoparticle anchored on thiol monolayer on gold electrode", International conference on recent advance in materials and chemical sciences (ICRAMCS-2015), Gandhigram Rural Institute, Dindugal
 14. P. N. Manikandan, V. Dharuman, (2015), "L-Dopa detection at zinc oxide- reduced graphene oxide modified electrode", International conference on recent advance in materials and chemical sciences (ICRAMCS-2015), Gandhigram Rural Institute, Dindugal
 15. H. Imran, V. Dharuman, (2015), "Simultaneous sensing of ascorbic acid, dopamine and uric acid at electrochemically exfoliated graphene oxide-gold nanoparticles", International conference on recent advance in materials and chemical sciences (ICRAMCS-2015), Gandhigram Rural Institute, Dindugal
 16. T. Marimuthu, N. Anandhan, M. Mummoorthi, V. Dharuman, (2015), "Synthesis and Characterization of Porous Structured ZnO Thin Film for Dye Sensitized" 60th DAE-Solid State Physics Symposium Department of Atomic Energy Solar Cell Applications, Amity University, Noida.
 17. P. N. Manikandan, V. Dharuman (2015), "Fabrication of non-enzymatic glucose sensing using zinc oxide-multiwalled carbon nanotube-poly vinyl chloride composite electrode" National Conference On Recent Advances In Chemical Sciences, Gandhigram Rural Institute, Dindugal
 18. H. Imran, V. Dharuman (2015), "Simultaneous determination of ascorbic acid, uric acid and dopamine at 10rapheme layers-gold nanoparticle film electrode", National Conference On Recent Advances In Chemical Sciences, Gandhigram Rural Institute, Dindugal.
 19. P. N. Manikandan, V. Dharuman, (2015), "Development of nonenzymatic glucose sensing using zinc oxide-multiwalled carbon nanotube-poly (vinyl chloride) composite on glassy carbon transducer", National seminar on frontier areas in chemical technologies - 2015 (FACTs-2015), Alagappa University, Karaikudi
 20. H. Imran, V. Dharuman, (2015), "Simultaneous sensing of ascorbic acid, uric acid and dopamine at 10rapheme layers-gold nanoparticle film on glassy carbon electrode, National seminar on frontier areas in chemical technologies - 2015 (FACTs-2015), Alagappa University, Karaikudi
 21. P.N. Manikandan, V.Dharuman, (2015) "Zinc oxide- 10rapheme oxide modified electrode for L-dopa sensing", National Seminar on Recent Advances in Chemistry, Department of Chemistry, Kandaswami Kandar's College, Velur
 22. H. Imran, V.Dharuman, (2015), "Influence of organic solvents on the direct attachment of 10rapheme oxide on gold electrode for electrochemical sensing of acetaminophen", National Seminar on Recent Advances in Chemistry, Department of Chemistry, Kandaswami Kandar's College, Velur
 23. M. Bhuvana, V. Dharuman, (2014) "Liposome Modified Electrode For DNA Sensing", National Conference on Recent Advances in Nanomaterials for Sensor Applications (NANOSE-2014), Alagappa University, Karaikudi

24. C. Anjalidavi, V.Dharuman, (2014) "Hydrogen Peroxide Detection At Ruthenium Oxide Modified Electrode", National Conference on Recent Advances in Nanomaterials for Sensor Applications (NANOSE-2014), Alagappa University, Karaikudi
25. M.Bhuvana, V.Dharuman, (2014) "Investigation of neutral and cationic liposome interaction with gold nanoparticle on gold transducer for DNA sensing" Second International conference on Nanostructured Materials and Nanocomposites (ICNM 2014), Mahatma Gandhi University, Kerala
26. M. Bhuvana, V. Dharuman, (2015) "Effect of gold 11rapheme11cles on lipid structure control on gold", Indo-Australian Conference on "Biomaterials Tissue Engineering, Drug Delivery System & Regenerative Medicine, Anna University, Chennai
27. J. Shankara Narayanan, V.Dharuman, (2014) "Effect Of Temperature On Ruthenium Dioxide-Poly(Vinyl Chloride)-Nafion Composite For Non-Enzymatic Glucose Sensing Electrode", National Conference on Recent Advances in Nanomaterials for Sensor Applications (NANOSE-2014), Alagappa University
28. K. Jayakumar, R. Rajesh, R. Venkatasan, V.Dharuman, (2014), "Synthesis of polyamidoamine (PAMAM) dendrimer functionalization on 11rapheme oxide electrode", National Conference on Recent Advances in Nanomaterials for Sensor Applications (NANOSE-2014), Alagappa University
29. M. Bhuvana, V. Dharuman, (2013), "Tethering of spherical liposome mixture-gold nano particles on gold transducer for electrochemical DNA sensing and transfection", Indo-Japan workshop on Biomolecular Electronics & Organic Nanotechnology for Environment Preservation (IJWBME 2013), International, Delhi Technological, University, Delhi.
30. V. Dharuman, (2014), "Electrochemical DNA sensing in presence of inorganic metal complexes and organic dyes" Indo-French seminar on Bioinorganic approaches to current health problems, Pondicherry University
31. M. Bhuvana, V. Dharuman, (2014), "Liposome gold nano composite for electrochemical DNA sensing" Indo-French seminar on Bioinorganic approaches to current health problems, Pondicherry University
32. J. Shankara Narayanan, V. Dharuman, (2013), "Selective Oxidation of Glucose at Ruthenium oxide Graphene oxide Nano Complex", Indo-Japan workshop on Biomolecular Electronics & Organic Nanotechnology for Environment Preservation (IJWBME 2013), International, Delhi Technological, University, Delhi.
33. J. Shankara Narayanan, M. Bhuvana, V.Dharuman, (2013), "Novel Liposome-gold Transducer for Electrochemical DNA Sensing" International Conference on "Recent Advances in Textile and Electrochemical Sciences (RATES-2013), Alagappa University
34. R. Vairam, J. Shankara Narayanan, V. Dharuman, (2013), "An enzymatic glucose sensing at polypyrrole-ruthenium oxide glucose oxidase composite" International Conference on "Recent Advances in Textile and Electrochemical Sciences (RATES-2013), Alagappa University
35. M.Bhuvana, V.Dharuman, (2013), "Label free DNA Sensing at Liposome-AuNP nano composite", Second International Workshop on Advanced Function Nanomaterials (SIWAN-2013), Anna University, Chennai
36. M.Bhuvana, V.Dharuman, (2013), "Liposome and AuNP nano composite for Label free DNA Sensing" International Conference on "Recent Advances in Textile and Electrochemical Sciences (RATES-2013), Alagappa University
37. M. Bhuvana, V.Dharuman, (2012), "Liposome preparation and DNA Sensing", National Conference on Recent Advancements in Nanomaterials for Sensor Applications (NANOSE-12), Alagappa University
38. C. Anjalidevi, J. Shankara Narayanan, V.Dharuman, (2013), "Glucose Sensing at Graphene Oxide - ZrO using Glassy Carbon Nano Composite Modified Electrode" International Conference on "Recent Advances in Textile and Electrochemical Sciences (RATES-2013), Alagappa University
39. N. Anandhan, S. Senthilkumar, J. Shanakara Narayanan, V.Dharuman, T. Marimuthu, G. Ravi, G. Sivakumar (2013), "The formation of CdZnS thin film and its

- Charectrization" International Conference on "Recent Advances in Textile and Electrochemical Sciences (RATES-2013), Alagappa University
40. J. Shankara Narayanan, M. Bhuvana, V.Dharuman, (2012), "Electrochemical DNA detection using liposome-gold transducer", 17th National Convention of Electrochemist (NCE-17), CECRI, B.S Abdur Rahman University, Chennai
 41. C. Anjalidevi, V.Dharuman, (2013), "Ruthenium oxide-gold graphemeclcs film for the direct electrochemical hydrogen peroxide sensing: Effect of ruthenium oxide annealing temperature", Indo-Japan workshop on Biomolecular Electronics & Organic Nanotechnology for Environment Preservation (IJWBME 2013), International, Delhi Technological, University, Delhi
 42. K. Jayakumar, K. Ganapathy V.Dharuman, (2013), "Fabrication of Graphene Oxide Gold nano sheets and characterization for glucose "Recent Advances in Textile and Electrochemical Sciences (RATES-2013), Alagappa University
 43. K. Jayakumar, R. Rajesh, R. Venkatasan, V.Dharuman, (2013), "Electrochemical synthesis of grapheme gold nano films for DNA sensing", International Conference on Emerging Technologies Micro to Nano, BITS, Pilani-K.K. Birla GOA Campus, India
 44. S. Radhakrishnan, J. Wilson, V.Dharuman, (2012), "Gold nano particles decorated Poly(3,4-ethylenedioxythiophene) thin film for high sensitive label free electrochemical DNA sensor", Recent Advances in Textile and Electrochemical Sciences (RATES-2012), Alagappa University
 45. S. Radhakrishnan, J. Wilson, V.Dharuman, (2011), "DNA hybridization Electrochemical Biosensor using a Functionalized Polypyrrole", Sixteenth National Convention of Electrochemists (NCE-16), Central Electrochemical Research Institute, karaikudi and P.S.G.R. Krishnammal College for women, Coimbatore
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