

Dr. V. DHARUMAN ASSOCIATE ROFESSOR

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Academic Qualification	ons: M.A./M.Sc./M.Phil./Ph.D./

S.No	Degree	College and University	Year	Subject	Percentage
1	Ph.D.,	University of Madras	2002	Chemistry	Awarded
2	M.Sc.,	University of Madras	1991	Chemistry	II class
3	B.Sc.,	University of Madras	1989	Chemistry	I Class

Teaching Experience: 15 Years					
Designation and Research Institution		Period	Duties and Responsibilities		
Associate Professor	2020	Till date	Teaching and research in the field of Bioelectronics and Biosensors/Material Science		
Assistant Professor	2008	2020	Teaching and research in the field of Bioelectronics and Biosensors/Material Science		

Research Experience: 21 Years					
Designation	Research Institution	From	То		
Teacher cum Research and Development	Alagappa University	June 2008	till		
Post-doctoral Research Scientist	Pohang University of Science and TechnologySOUTH KOREA	8 th Aug. 2007	15 th June 2008 (11 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	13 th Dec. 2004	10 th Oct. 2006 (1 y 10 months)		
Post-doctoral Research Scientist	Fraunhofer Institute for Silicon Technology, GERMANY	17 th Sep. 2001	30 th Nov. 2004 (3 y 2 months)		

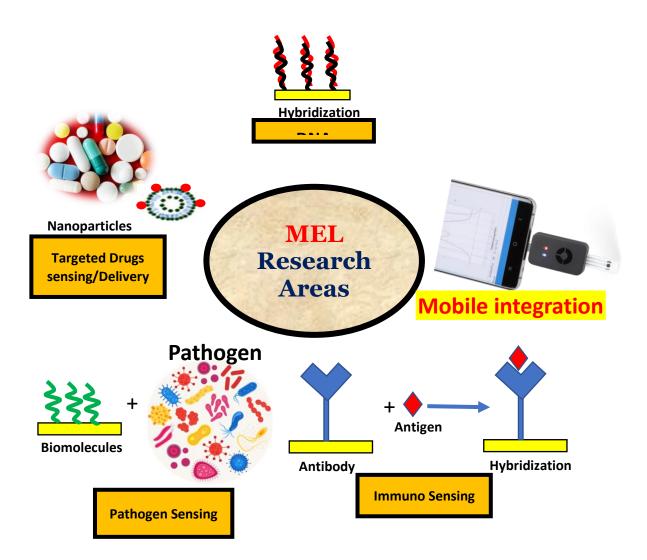
Additional Responsibilities

S.No	College and University	Year
1	Dept. NAAC coordinator	2014
2	NIRF Coordinator	2017
3	Dept. Cultural club coordinator	2016
4	Deputy Director for University Scientific Instrumentation Centre	2017
5	Deputy Coordinator (STRIDE CELL	2018
6	Deputy Coordinator (Innovation and Incubation cell	2022

Areas of Research

- Biosensor /chemical sensors/ mobile integration
 - Glucose sensors for diabetic monitoring
 - o DNA, antibody (immune) sensors for cancer diagnosis
 - Bacterial and viral (Pathogen) and neurological disorders
 - $\circ~$ Electrochemical the ragnostic devices for drug delivery and sensing
 - Molecular Self-assembly for electronics
 - Transducer materials development lipid nanoparticles, metal oxides, polymer composites, graphene,

nanocarbon (nanotube, sheets, nanodots)



Research Supervision / Guidance

Pro	gram of Study	Completed	Ong oing
Researc	Ph.D.	8	2
h	M.Phil.	2	-
			-
			-
	PDF		2
	Project Fellow		1
Project	PG	37	7

Research Group:

Post Doctoral Fellow

- 1. Dr. V. Sudha, D. S. Kothari Post Doctoral Fellow, 2022-2024
- 2. Dr. K. Duraimurugan, RUSA Post Doctoral Fellow, 2020 2021
- 3. Dr. Mahendra Prabhu, D. S. Kothari Post Doctoral Fellow, 2016-2017

PhD scholars

- 1. Y. Allwin Richard, ICMR Fellow
- 2.S. Aniu Lincy Project Fellow

Ph.D's Guided

	3. S. Aniu Lincy, Project Fellow				
S. No.	Name of the Candidate	Year	Title of Thesis		
1	Dr. K. Jayakumar	2014	Construction And Characterization Of Graphene Core-Lower Generation oly(Amidoamine) Dendrimer Gold Nanoparticle Composite For Electrochemical DNA Sensing		
2	Dr. J. Shankaranarayanan	2014	Non-Enzymatic Glucose Sensing at Ruthenium Oxide-Polymer-Nano Carbon Composites		
3	Dr. M. Bhuvana	2014	Thered Spherical Liposome-Gold Nanoparticles On Thiol Monolayer Modified Gold Transducer For DNA Sensing		
4	Dr. C. Anjalidevi	2014	Non-Enzymatic Hydrogen Peroxide Sensing At Metal (Ruthenium, Tin, And Zirconium) Oxide Supported Gold Nanoparticles		
5	Dr. P. Manikandan	2019	Non-enzymatic Diagnosis of Diabetes Jaundice and Neurological Diseases Using Metal Oxide Polymer Hybrid Electrodes		
6	Dr. H. Imran	2019	Graphene –Gold Nanoparticle – Liposome Composite for Label Free Electrochemical DNA and Dopamine Sensing.		
7	Dr. K. P. Divya	2019	Label Free DNA and Protein Sensing at Lipid Bilayer- Nanoparticle Tethered on Thiol Monolayers		
8	Dr. A. Anancia Grace	2022	Titanium Dioxide –Medal (Mn,W, Sn,Gd) Oxide –Graphene Composite Modified Electrodes for Electrochemical Sensing of Neuro and Pharmaceutical Chemicals.		

International		Nation al		Other s
Journals	Conferences	Journals Conferences		Books Chapters
61	72	3	66	4

Cumulative Impact Factor (as p	er JCR) :	396.12
h-index	:	26

i10 index	:	46
Total Citations	:	1733

Ph. D Thesis Evaluated / Viva voce Examiner

Thesis Evaluated	:	13
Viva voce Examiner	:	4

Funded Research Projects

Ongoing Projects

S. No	Agency	Period	Project Title	Budget (Rs. In Lakhs
1	RUSA EIR	2023	Cost effective renewable diabetic sensor for home and personal care	3.55
2	RUSA 2.0	2018	Advanced materials for sustainable energy and sensor applications	33.00

Completed Projects

S.No	Agency	Period	Project Title	Budget (Rs. In lakhs)
1	DST	2015-2018	Development of novel graphene	44.7
			and metal nano composite films	
			and characterization for label free	
			electrochemical DNA-protein	
			sensing	
2	UGC	2015-2018	Studies on membrane proteins	14.65
			interactions on liposome-DNA-	
			gold nanoparticle composite	
			tethered on goldtransducer for	
			biosensing	
			Development of Simple, Reagent	
3	ICMR	2013-2016	less, Renewable Glucose Sensors	32.79
			Using NanoRuthenium oxide-	
			nano pore Polymer –	
			Nano Au Composite Films	

4	AURF	2010-2011	Electrochemical Detection of Antibody Prostate Specific Antigen InteractionsUsing Gold Transducers	0.64
5	DST	2010-2013	Liposome mediated cancer DNA sensingof electrochemical and piezo electric techniques and DNA transfection studies	25.44
6	CSIR	2010-2013	Development of Electrochemical immunosensors for simultaneous detections and discriminations of different food pathogenic bacterial microbes on micro gold arrays	18.16
7	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

Distinctive Achievements / Awards

S.No	Award	Year
1.	Best poster award, One Day Workshop on Poster Exhibition of Innovative Ideas and Display of Prototype Device Innovation Ambassador Linkage	2022
2.	Best oral award, National Conference on advances in functional materials, SSN college of engineering, Chennai	2019
3.	Best poster award, Nano/Biotechnology	2019
4.	Best poster award, National Conference on Futuristic Materials (NCFM)	2017
5.	Best poster award, International conference on recent advance in materials and chemical sciences (ICRAMCS)	2015
6.	Alagappa Excellence Award for Research	2016
7.	Best poster award, Indo-Japan workshop on Biomolecular Electronics & Organic Nanotechnology for Environment Preservation (IJWBME)	2013
8.	Young Biomedical Scientist Research Fellowship by Indian Council of MedicalResearch	2013
9.	Article Gold nano particle decorated graphene core first generation PAMAM dendrimer for label free electrochemical DNA hybridization sensing, Biosens.	2012

	Bioelectr., 31 (2012) 406-412. Ranked 16th on the TOP 25 articles in the Journal of Biosensors and Bioelectronics,	
10.	Fraunhofer Research Achievement Award, from Fraunhofer Gesellschaft, Leonrodstrasse 54, D 80636 München, Germany	2002
11.	Fraunhofer Research Scientist Fellowship	2001-2004
12.	Senior Research Fellow, UGC, India	1998-2000
13.	Junior Research Fellow, UGC, New Delhi, India	1995-1997
14.	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

N	Number of Seminars / Conferences / Workshops / Events organized:						
	Events organized in leading roles						
Position	Programme	Duration	Institution				
Organizer	International (Indo-Poland) Workshop on Functional Materials for Sensor and Energy Applications (FMSEA)	10-11 th November 2022	Alagappa University, Karaikudi.				
Organizer	International Conference Nanomaterials Driven Advances in Chemical and Biosensors	23 rd – 25 th March 2022	Alagappa University, Karaikudi.				
Organizer	National Workshop on Advanced Nanomaterials for Sustainable Energy and Sensors Applications	04-06 th March2020	Alagappa University, Karaikudi.				
Organizer	International Conference Nanomaterials Driven Advances in Chemical and Biosensors	₂₇₋₂₉ th November 2019	Alagappa University, Karaikudi				
Organizer	Workshop on Nano-Bio-Sensors: Present Status and Future Perspectives	08-09 th March2018	Alagappa University, Karaikudi				
Organizer	Workshop on Biosensors in Agricultural, Environmental and Medical Sciences	13 th March 2017	Alagappa University, Karaikudi				
Organizer	Conference on Exploring Commercialization of Biosensors	14 th March 2017	Alagappa University, Karaikudi				
Organizer	National Conference on Recent Advances in Nanomaterials for Sensor Applications	06-07 th March2014	Alagappa University, Karaikudi				
Organizer	National Conference on Recent Advances in Nanomaterials for Sensor Applications	08-09 th March2012	Alagappa University, Karaikudi				
Organizer	National Conference on Recent Advances in in Biosensors	03-04 th March, 2011	Alagappa University, Karaikudi				
Organizer	National Seminar on Frontiers in Nanomaterials and Biosensors	4 th & 5 th March,2010,	Alagappa University, Karaikudi				
Organizer	National Seminar on Advancements in Bioelectronics and Biosensors,	₁₉ th & ₂₀ th March, 2009	Alagappa University, Karaikudi				
Organizer	one day workshop on Metrohm Autolab Electrochemical Instruments for biosensor, energy and corrosion applications	16-02-2015	Alagappa University, Karaikudi				

Other Training Programs

- Interdisciplinary course on Nanoscience and Technology, organized by University of Madras from 11.11.2009 to 01.12.2009.
- Orientation course in organized by Madurai Kamaraj University, from 30.05.2013 to 26.06.2013.
- Interdisciplinary course in Life sciences, organized by Bharathidasan University, Trichy, 03.03.2016 to 23.03.2016.

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S.No.	Country visited	Position	Period
1	South Korea,	Postdoctoral	August 2007 – June
	Department of	Research –	2008, Dec. 2004-
	Chemistry, Biotech	Development of	Oct. 2006
	Center, Pohang	abel free DNA	Oct. 2012 - May 2013
	University of Science	sensing by	
	and Technology,	electrochemical	
		methods	
		Immunosensors	
		for estrogen	
		detection)	
2	Japan, Diamond	Research	October
	Research Centre,	Scientist Staff –	2006 –
	Advanced Institute of	Diamond	March
	Industrial Science and	electrode-based	2007
	Technology, Tsukuba	DNA sensors.	
3	Germany, Department	Postdoctoral	Sept.2001-
	of Biotechnical Micro	Research	Nov.2004
	systems, Fraunhofer	Scientist	
	Institute of Silicon	worked on label	
	Technology,	free DNA	
		sensing	
4	Taiwan, National Tai	Research	September
	Chung University,	Exchange Visit	2000 to
	Taisung	Electrochemical	December
		Sensors	2000
		development	

Overseas Exposure / Visits

S.No	Membership/ Society	Year
1	Life Member: Indian Science Congress, L 14698,	2009
2	Life Member: Nanoscience and Technology Society of India, South chapter, NN105,	2015
3	Regular Member: American Chemical society (ACS), USA	2016
4	Member, Biosensor Society, India	2018
5	Life member: Indian Society for Electroanalytical Chemistry (ISEAC) LM- 321,	2022
6	Active Member, The Society for Advancement of Electrochemical Science and Technology, Karaikudi, A1369,	1996

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

- 1. Board of studies M.Sc., Bioelectronics and Biosensor Member 2008
- 2. Board of studies M.Sc., Bioelectronics Member 2013
- 3. Board of studies M.Sc., Physics (Specialization in Biosensors) Member 2016
- 4. Board of studies B.Sc., Electronics Chairman 2021
- 5. Board of studies M.Sc., Electronics Member 2021
- 6. Ph.D., Doctoral Committee Member 2009

Recent Publications

1		_	
SNo	Title of the paper, with Journal's name, Year of Publication, Vol. No., Page Nos., etc.	Impact	
		Factor, if	
		any*	
-			
1	Yesurajan Allwin Richard, Sebastinbaskar Aniu Lincy, Shakkthivel Piraman and	3.9	
	Venkataraman Dharuman , Ca-MOF-Polymer Modified Thin-Film Electrode for		
	Detection of Toxic Cadmium (Cd2+) in Biofluid and Environmental Fluid, Electrochem.		
	Soc. 171, 027517.		
2	S Elakkiya, V. Sudha, G Sathya Priyadarshini, G Selvi, V. Dharuman Tripodal Schiff	3.8	
4		5.0	
	base Tris [4-(4-nitrophenyl)-3-aza-3-butenyl] amine nanorod for selective detection of		
	uric acid, , Inorganic Chemistry Communications, 156, 2023, 111235.		
3	V. Sudha, V. Duraisamy, N. Arumugam, A. I. Almansour, T. Xiaoteng Liu, V.	5.9	
	Dharuman, S.M. Senthil Kumar Ultrasensitive Dopamine Detection at Co ₃ O ₄ -Anchored		
	N-Doped Hollow Mesoporous Carbon Nanospheres, , ACS Applied Nano Materials,		
	6(14), 2023, 13013-13026.		
4	H. Imran, J. An, K. Jang, A. Alam, V. Dharuman, M. Ko, S. Lim, Highly selective and	6.2	
	real-time detection of 5-hydroxymethylcytosine in genomic DNA using a carbon nitride-		
	modified gold transducer-based electrochemical sensor, Journal of Alloys and		
	Compounds, 948,2023, 169715		
5	Y. Allwin Richard, S. Aniu Lincy, P.Shakkthivel, V. Dharuman, Label-free	5.0	

	electrochemical detection of cancer biomarkers DNA and anti-p53 at tin oxide quantum	
6	 dot-gold-DNA nanoparticle modified electrode, Bioelectrochemistry, 150, 2023,108371 V. Duraisamy, V. Sudha, V. Dharuman, S. Murugesan, S. Kumar, Highly Efficient Electrochemical Sensing of Acetaminophen by Cobalt Oxide-Embedded Nitrogen-Doped Hollow Carbon Spheres, ACS Biomaterials Science & Engineering, 2023 	5.8
7	Y. Allwin Richard, S. Aniu Lincy, Ramachandran Saravanakumar, R. Maheswaran, V. Dharuman, Sensitive detection of acetaminophen in body fluids, pharmaceuticals and herbal medicines at un-doped mesoporous carbon nitride film electrode, Microchemical Journal, 184, 2023, 108175	4.8
8	S. Aniu Lincy, Y. Allwin Richard, T. Vinitha, K. Balamurugan, V. Dharuman, Streptavidin Fe_2O_3 -gold nanoparticles functionalized theragnostic liposome for antibiotic resistant bacteria and biotin sensing, Biosensors and Bioelectronics ,219, 2023, 114849	12.6
9	H. Imran, A. Alam, V. Dharuman, S. Lim, Fabrication of Enzyme-Free and Rapid Electrochemical Detection of Glucose Sensor Based on ZnO Rod and Ru Doped Carbon Nitride Modified Gold Transducer, Nanomaterials, 12(10), 2022, 1778.	5.3
10	S. Aniu Lincy, V. Dharuman, P. Kumar Ultrasensitive and direct detection of DNA and whole E. coli cell at cholesterol gold nanoparticle composite film electrode, Ionics, 28(4), 2022, 1973-1983.	2.8
11	Y. Allwin Richard, V. Dharuman , Electrochemical ultrasensitive label free Escherichia Coli DNA detection at Gold decorated tungsten oxide nanoparticles modified electrode surface J. Electrochemical Society , 2021,	3.9
12	A. Anancia Grace, V. Dharuman, J. H. Hahn , GdTiO ₃ perovskite modified graphene composite for electrochemical simultaneous sensing of Acetaminophen and Dopamine. J. Alloys and Compounds, 886 (2021) 161256	6.2
13	K. P. Divya, V. Dharuman, Electrochemical label free sensing of human IgG - Protein A interaction, J. Food Chemistry 339 (2021) 127991339, (2021), 127881	8.8
14	Habibulla Imran, Venkataraman Dharuman Highly selective and rapid non-enzymatic glucose sensing at ultrathin layered Nb doped C3N4 for extended linearity range, Microchimical Journal 160 (2021) 105774	4.8
15	S. Sivasakthi, H. Imran, G. Karuppasamy, S. Sagadevan, F.Mohammad, V. Dharuman, Green synthesis of porous carbon nanocubes accumulated microspheres for the simultaneous non-enzymatic sensing of uric acid and dopamine in the presence of ascorbic acid, Synthetic Metals 270, (2020), 116598	4.4
16	A. Anancia Grace, S. Thillaiarasi, V. Dharuman Binary Metal oxide Adsorbed Graphene modified Glassy carbon electrode for Detection of riboflavin, Electroanalysis, 33 (2021) 993-1006	3.223
17	DM Kandhasamy, C Selvaraju , V Dharuman, Structure and Dynamics of Poly(methacrylic acid) and Its Interpolymer Complex Probed by Covalently Bound Rhodamine-123, Spectrochimica Acta, 248 (2020), 119166	4.4
18	H. Imran, K. Vaishali, S. Antony Francy, P. N. Manikandan, V. Dharuman Platinum and zinc oxide modified carbon nitride electrode as non-enzymatic highly selective and reusable electrochemical diabetic sensor in human blood, Bioelectrochemistry 137 (2021) 107645	5.0
19	 G. Vijayaprasath, H. Imran, V. Dharuman, S. Balasubramanian, R. Ganesan Fabrication of Gd2O3 Nanosheet-Modified Glassy Carbon Electrode for Nonenzymatic Highly Selective Electrochemical Detection of Vitamin B2 ACS Omega 2020, 5, 17892–17899 	4.1
20	K. P. Divya, R. Karthikeyan, B. Sinduja, A. Anancia Grace, S. Abraham John, J. H. Hahn, V. Dharuman , Carbon dots stabilized silver–lipid nano hybrids for sensitive label free DNA detection, Biosensors and Bioelectronics , 133, (2019) 48-54.	12.6
21	P. N. Manikandan, H. Imran, V. Dharuman, Self-powered polymer metal oxide hybrid solar cell for non-enzymatic potentiometric sensing of bilirubin, (Medical Devices & Sensors, (2019) e10031.	
22	H. Imran, P. N. Mainkandan, D. Prabhu, V. Dharuman, J. Jeyakanthan, Ultra selective	5.3

	label free electrochemical detection of cancer prognostic p53-antibody at DNA	
23	 functionalized graphene, Sensing and Bio-Sensing Research, 23, (2019) 100261. A. J. Anancia Grace, K. P. Divya, V. Dharuman, J. H. Hahn, Single step sol-gel synthesized Mn2O3-TiO2 decorated graphene for the rapid and selective ultra sensitive electrochemical sensing of dopamine, Electrochimica Acta, 302, (2019) 291-300 	6.6
24	H. Imran, P. N. Manikandan, V. Dharuman, Ultra-sensitive and selective label free electrochemical DNA detection at layer-by-layer self-assembled graphene oxide and vesicle liposome nano-architecture, Journal of Electroanalytical Chemistry 835, (2019) 10-21.	4.4
25	K.P. Divya, A.J. Anancia Grace, V. Dharuman, Rapid and sensitive electrochemical label free ion channel, membrane protein and DNA sensing on surface supported liposome-gold nanoparticle platform, Journal of Electroanalytical Chemistry 834, (2019) 56-63.	4.4
26	K. Jayakumar, M. B. Camarada, R. Rajesh, R. Venkatesan, H. Ju, V. Dharuman, Y. Wen, Layer-by-layer assembled gold nanoparticles/lower-generation (Gn≤3) polyamidoamine dendrimers-grafted reduced graphene oxide nanohybrids with 3D fractal architecture for fast, ultra-trace, and label-free electrochemical gene nano biosensors,) Biosensors and Bioelectronics 120, (201855-63.	12.6
27	A. Subastri, V. Arun, P. Sharma, A. Suyavaran, S. Nithyananthan, G. M. Alshammari, B. Aristatile, V. Dharuman, C. Thirunavukkarasu, Synthesis and characterisation of arsenic nanoparticles and its interaction with DNA and cytotoxic potential on breast cancer cells Chemico-Biological Interactions 295, (2018) 73-83.	5.1
28	A Amali Roselin, N Anandhan, V Dharuman, Deposition of transistion metal Mn doped BTO thin films by sol-gel technique, Journal of Materials Science: Materials in Electronics, 29, (2018) 12036-12044.	2.8
29	V. Govindan, H. Imran, V. Dharuman, K Sankaranarayanan, Microwave assisted synthesis of Ce-doped SnS2 nano-flowers with enhanced vitamin-B sensing and photocatalytic activity, Journal of Materials Science: Materials in Electronics 29, (2018) 17670-17680	2.8
30	K. Jayakumar, M. B. Camarada, V. Dharuman, R. Rajesh, R. Venkatesan, H. Ju, M. Maniraj, A. Rai, S. R. Barman, Y. Wen, Layer-by-Layer-Assembled AuNPs-Decorated First-Generation Poly(amidoamine) Dendrimer with Reduced Graphene Oxide Core as Highly Sensitive Biosensing Platform with Controllable 3D Nanoarchitecture for Rapid Voltammetric Analysis of Ultrarace DNA Hybridization, ACS Appl. Mater. Interfaces, 10, (2018) 21541–21555.	9.5
31	H. Imran, P. N. Manikandan, V. Dharuman, Graphene oxide supported liposomes for efficient label free electrochemical DNA biosensing, Sensors and Actuators B: Chemical 260, (2018) 841-851.	8.4
32	K. Jayakumar, M. B. Camarada, V. Dharuman, H. Ju, R. S. Dey, Y. Wen, One-step electrodeposition-assisted layer-by-layer assembly of gold nanoparticles and reduced graphene oxide and its self-healing three-dimensional nanohybrid for an ultrasensitive DNA sensor, Nanoscale, 10, (2018) 2658-2658.	6.7
33	E Preedia Babu, A Subastri, A Suyavaran, K Premkumar, V Sujatha, B Aristatile, Ghedeir M Alshammari, V Dharuman , C Thirunavukkarasu, Size Dependent Uptake and Hemolytic Effect of Zinc Oxide Nanoparticles on Erythrocytes and Biomedical Potential of ZnO-Ferulic acid Conjugates, , Scientific Reports 7. (2017)908	4.6
34	K. P. Divya, V. Dharuman, Supported binary liposome vesicle-gold nanoparticle for enhanced label free DNA and protein sensing, Biosensors and Bioelectronics, 95, (2017), 168-173.	12.6
35	 P. N. Manikandan, V. Dharuman, Electrochemical Simultaneous Sensing of Melatonin, Dopamine and Acetaminophen at Platinum Doped and Decorated Alpha Iron Oxide Electroanalysis 29, (2017) 1 – 9. 	3.223
36	K. P. Ganesan, N. Anandhan, V. Dharuman, P. Sami, R. Panneerselvam, T. Marimuthu	5.3

	Electrochemically modified crystal orientation, surface morphology and optical properties	
	using CTAB on Cu2O thin films, Results in Physics , 7 , (2017)82.	
37	P. N. Manikandan, H. Imran, V. Dharuman, Direct glucose sensing and biocompatible	3.1
	properties of zinc oxide- multiwalled carbon nanotube - poly (vinyl chloride) ternary composite Anal. Methods, 8, (2016), 2691-2697.	
38	M. Bhuvana, V. Dharuman 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, (2016) 157–165.	8.4
39	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.	3.9
40	V. Dharuman, C. Anjalidevi, P. N. Manikandan, H. Imran, Gold nanoparticles supported on zirconium, tin and ruthenium oxides for reagentless electrochemical sensing of hydrogen peroxide Anal. Methods, 7, (2015) 3454-3460.	3.1
41	G. Vijayaprasath, R. Murugan, J. Shankara Narayanan, V. Dharuman, G. Ravi, Y. Hayakawa, Glucose sensing behavior of cobalt doped ZnO nanoparticles synthesized by co-precipitation method Journal of Materials Science: Materials in Electronics 7, (2015) 4446-4450.	2.8
42	M. Bhuvana, V. Dharuman, Construction of Spherical Liposome on Solid Transducers for Electro chemical DNA Sensing and Transfection Appl Biochem Biotechnol 174, (2014), 1137-1150.	3.0
43	M. Bhuvana, V. Dharuman, Tethering of spherical DOTAP liposome gold nanoparticles on cysteamine monolayer for sensitive label free electrochemical detection of DNA and transfection, Analyst 139, (2014) 2467-2475.	4.2
44	J. Shankara Narayanan, M. Bhuvana, V. Dharuman, 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, (2014), 326-332.	12.6
45	S. Radhakrishnan, C. Sumathi, Ahmad Umar, Sang Jae Kim, J. Wilson, V. Dharuman, Polypyrrole– poly(3,4-ethylenedioxythiophene)–Ag (PPy–PEDOT–Ag) nanocomposite films for label-free electrochemical DNA sensing Biosensors and Bioelectronics , 47, (2013) 133-140.	12.6
46	V. Dharuman, J. H. Hahn, K. Jayakumar and W. Teng, Electrochemically reduced graphene-gold nano particle composite on indium tin oxide for label free immuno sensing of estradiol Electrochimica Acta, 114, (2013) 590–597.	6.6
47	C. Anjalidevi, V. Dharuman , J. Shankara Narayanan, Non enzymatic hydrogen peroxide detection at Ruthenium oxide-gold nano particle- Nafion modified electrode (2013) Sensors and Actuators B Chemical 182, 256–263.	8.4
48	S. Radhakrishnan, C. Sumathi, V. Dharuman, J. Wilson, Polypyrrole nanotubes– polyaniline composite for DNA detection using methylene blue as intercalator, Analytical Methods, 5, (2013) 1010-1015.	3.1
49	S. Radhakrishnan, C. Sumathi, V. Dharuman, J. Wilson, Gold nanoparticles functionalized poly(3,4- ethylenedioxythiophene) thin film for highly sensitive label free DNA detection Analytical Methods, 5, (2013) 684-689.	3.1
50	J. Shankara Narayanan, C. Anjalidevi, V. Dharuman, Nonenzymatic glucose sensing at ruthenium dioxide–poly(vinyl chloride)–Nafion composite electrode Journal of Solid State Electrochemistry 17, (2013) 937–947.	2.5
51	M. Bhuvana, J. Shankara Naryanan, V. Dharuman, W. Teng, J. H. Hahn, K. Jayakumar, Gold Surface Supported Spherical Liposome – Gold Nano Particle Nano Composite for Label Free DNA Sensing, Biosensors and Bioelectronics 41 , (2013) 802–808.	12.6
52	J. Wilson, S. Radhakrishnan, C.Sumathi, V. Dharuman, Polypyrrole- Polyaniline – Au (PPy-PANi-Au) nano composite films for label free electrochemical DNA sensing Sensors and Actuators B Chemical 171, (2012) 216-222.	8.4

53	K. Jayakumar, R. Rajesh, V. Dharuman, R. Venkatasan, J. H. Hahn, S. Karutha Pandian, Gold nano particle decorated graphene core first generation PAMAM dendrimer for label free electrochemical DNA hybridization sensing Biosensors and Bioelectronics , 31 , (2012) 406-412.	12.6
54	V. Dharuman, K. Vijayaraj, S. Radhakrishnan, T. Dinakaran, J. Shankara Narayanan, M. Bhuvana, J.Wilson, 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, (2011) 8147–8155.	6.6
55	V. Dharuman , B. Y. Chang, S. M. Park, J. H. Hahn, 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.	12.6
56	V. Dharuman , J. H. Hahn, 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, (2008) 1250-1258.	12.6
57	V. Dharuman, J.H.Hahn, 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 (2007) 536-544.	8.4
58	V. Dharuman , E. Nebling, T. Grunwald, B. Elsholz, J. Albers, L. Blohm, R. Wörl, R. Hintsche, DNA hybridization detection on Electrical Micro Arrays using Coulostatic Pulse Technique Biosensors and Bioelectronics , 22, (2006) 744-751.	12.6
59	V. Dharuman, k. Chandrasekara Pillai, RuO2 electrode surface effects on electrocatalytic oxidation of glucose, Journal of Solid State Electrochemistry , 10 , (2006) 967-979	2.5
60	V. Dharuman , E. Nebling, T. Grunwald, B. Elsholz, J. Albers, L. Blohm, R. Wörl, R. Hintsche Labelfree impedance detection of oligonucleotide hybridization on interdigitated ultramicroelectrodes using electrochemical redox probes, Biosensors and Bioelectronics , 21, (2005)645-654.	12.6
61	J-M Zen, Hsu-Fang Wang,A. Senthil Kumar, Hsueh-Hui Yang V. Dharuman Preconcentration and electroanalysis of copper(II) in ammoniacal medium on nontronite/cellulose acetate modified electrodes Electroanalysis, 14, (2002) 99.	3.223
62	J-M Zen, D-M Tsai, A. Senthil Kumar, V. Dharuman, Amperometric determination of ascorbic acid at a ferricyanide-doped tosflex-modified electrode, Electrochemical Communication 2, (2000) 782-785.	5.4
63	V. Dharuman , k. Chandrasekara Pillai, Oxidation of D-glucose at RuO2-PVC paste electrode in 1M NaOH-Dependence of oxide preparation temperature, Bulletin of Electrochemistry 15 , (1999) 476.	-
64	V. Dharuman K. Chandrasekara Pillai, Glucose oxidation at Pt/PVC-bonded RuO2 composite electrode, Indian Journal of Chemical Technology 4, (1997), 25.	0.76
65	K. Chandrasekara Pillai, A Senthil Kumar, V. Dharuman, Adsorption of ruthenium(II) bipyridyl at the MnO2/solution interphase, Bulletine of Electrochemistry 12, (1996) 432.	-

Contribution in book chapters

S.No	Title	Author's Name	Publisher	Year of Publication
1.	Fully Electrical Microarrays', in	R. Hintsche, B. Eisholz, G.	Ed.Paesche, Palecek,	2006
	Perspectives in Bioanalysis,	Piechotta, R. Woerl, C. G.	Elsevier, 246-277,	
		J. Schabmueller, J. Albers,	ISBN: 978-0-444-	
		V. Dharuman, E. Nebling,	52223-8	
		A. Hanisch, L. Blohm, F.		
		Hofmann, B. Holzapfl, A.		
		Frey, C. Paulus, M.		
		Schienle, R. Thewas,		
2.	Label free Electrochemical sensing of	V. Dharuman, J. H. Hahn	E. Herold, Avraham	2012
	DNA hybridization for Cancer		Rasooly CRC press,	
	Analysis" in Biosensors and		Taylor & Francis	
	Molecular Technologies for Cancer		Group. 671-692	
	Diagnostics, Keith			
3.	Graphene -PAMAM Dendrimer -	K. Jayakumar, R. Rajesh,	Nucleic Acid detection	2013
	Gold nano particle composite for	V. Dharuman, R.	Methods and	
	electrochemical DNA hybridization	Venkatesan,	Protocols, Ed. Dimitry	
	Detection",		M. Kolpashchikov and	
			Yulia V. Gerasimova,	
			Humana Press, USA,	
			PP 201-220, ISBN,	
			978-1-62703-534-7	
4	"Carbon Nanodots Based Electrodes	V. Dharuman	Handbook of	2023
	in Biomolecular Screening and		Nanobioelectrochemist	
	Analysis'		ry, Springer, Singapore	

Resource persons in various capacities

Conferences /invited lectures/papers presented

Number of Invited	: 33
Special Lectures delivered	: 33
Papers presented	:72

S.No	Title of the Invited	Title of Conference/	Organized by
	Lecture/Paper presented	Seminar date etc.	
1			
	Quantum dot based		Dept of Industrial
	biosensing		Chemistry, Alagappa
			University, Karaikudi
2	Electrochemical detection of	International Conference on	CO2
	DNA biomarker at modified	Electrochemistry for	Research and Green
	electrodes		Technologies Centre,
			Vellore Institute of
		08–10 th , February, 2024	Technology, Vellore-632
			014, India

3	nanoparticles Functionalized	International conference on electrochemistry in industry,Health and Environment, 7 th to 11 th February,2023	BARC, Mumbai
4	8	11 th April 2021	Mahatma Gandhi University, P.D Hills P.O,Kottayam, Kerala, India & Wroclaw University of Technology, Wroclaw, Poland & Gdansk University of technology, Poland & Wuhan University, China
5	Nanomaterials for Biosensing	•	Sacred Heart College, Thiruppattur
6	Oxide modified Carbon transducers	6 th International Conference on Recent Advances in	Department of Chemistry, SRM Institute of Science and Technology
7	Recent advances in Biosensor		Nanoscience and nanotechnology at Sathiyabama Institute of Science and Technology, Chennai
8	Molecular sensing signal amplification strategies for point of care development for early disease diagnosis	Emerging Materials for Diagnostic and Therapeutic" (EMDT-2022), 27th and	Center for Nanoscience and Nanotechnology, Sathyabama Institute of Science and Technology, Chennai.
9	Liposome platforms for electrochemical Biosensing	International Conference on Electrochemistry for Industry, Health and Environment, 21-25, January 2020	BARC, ISEAC Mumbai
10	Biosensing	~	University of Madras
11	Spherical liposomes and metal nanoparticles in biosensor	Nano/Biotechnology 2019, 19 th to 21 th December, 2019	Jawaharlal Nehru University, New Delhi
12		National Workshop on Emerging Sensor Technologies, 7th – 8th	Bharathiar University

		January 2019	
13	Signal Amplification strategies for tools development for early disease diagnosis		
14	Advances in Biosensor sor	International symposium on crystallography and advanced materials, 26 & 27th March 2018	Organized by University of Madras, Chennai
15	transducer applications	International conference on recent trends in Analytical Chemistry, 15-17, March 2018	organized by University of Madras, Chennai
16	Biosensors and applications	One day seminar on recent developments in DNA barcoding RET species of peninsular India, 3 rd August 2017	Alagappa University
17	A session Chaired	Two day international conference on Renewable energy science and technology (ICREST-2017), 10 & 11 th March 2017	Alagappa University,
18	Biosensing Resource person	sponsored short term training course on Recent trends in thin film development and their applications in biomedical and biosensor devices, 12th to 28th March, 2018	organized by Sathyabama Institute of Science and Technology, Chennai
19	Biosensors and their	One day National seminar on Modern Trends in Chemistry – 2018, 21st, February 2018	S, Vellaichamy Nadar College, Madurai,
20	nanoparticles on solid surfaces for enhanced DNA sensing	Euro-India International conference on experimental and clinical medicine (ICECM-2017), Nov. 10-12, 2017	Organized by International and Inter University centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Kerala.
21	A session Chaired	Euro-India International conference on experimental and clinical medicine (ICECM-2017), Nov. 10-12, 2017	Organized by International and Inter University centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Kerala.
22	nanostructures with molecules for sensing	National Conference on Futuristic Materials (NCFM- 2017), March 27 & 28th, 2017	Alagappa University,
23	Electrochemical DNA sensing on graphene oxide – gold		Department of Chemistry, Kandaswami Kandar's

	nanoparticle transducer		College, Velur
24	Anchoring of Lipid-Gold		Anna University, Chennai
		Engineering, Drug Delivery	
		System & Regenerative	
		Medicine, 5-7th February	
		2015	
25			Anna University
_		programme on Frontiers	Bharathidasan Institute of
		Research in Applied	Technology, Trichy
		Sciences (FRAS 15), 3-16,	
		June 2015	
26	Behaviour of liposome-gold	International conference on	Mahatma Gandhi
	nanoparticle complex on	Nanostructured Materials	University, Kerala
	solid transducer-	and Nanocomposites (ICNM	
	Electrochemical studies	2014), 19-21 December, 2014	
27	Designing And		Alagappa University,
		Nanomaterials for Sensor	Karaikudi
		Applications (NANOSE-	
	Electrochemical Dna Sensing		
28	Electrochemical DNA		Pondicherry University and
		0 11	Indo French center for
		current helath problems, 24-	
			research
29	-	Indo-Japan workshop on	Delhi Technological
	L .	Biomolecular Electronics &	University, Delhi, India
		Organic Nanotechnology for	
	electrochemical DNA Sensing		
	and transfection	(IJWBME 2013), 13 -15	
		December 2013	
30	Surface Designing	International conferences on	
			Technology, Vellore
	Characterization for Efficient		
		2013), 5-7 December 2013	
	Electrochemical DNA		
	Hybridization Sensing		
31	0 0 1		Alagappa University,
	transducers		karaikudi
		Nanomaterials for Sensor	
		Applications (NANOSE-12),	
		8-9 March 2012	
32			Rajalakshmi Institutions,
	0		Chennai
	•	Engineering BIDTE-2012, 6-	
0.0		8 January 2012 International Symposium	Indian Society for
33	Enzyme label free electrochemical DNA	5 1	Indian Society for
		Cum workshop on Electrochemistry, 7-10,	Electroanalytical Chemistry BARC, Mumbai,
		December 2011	India
0.4			Pondicherry University
34	2	and Proteomics-2011	r onulcherry Oniversity
	Biotechnological Research – Overview		
05		National sumposium on	Pondichonmy University
35			Pondicherry University
	•	renaissance in chemistry	
	overview	(NSRC-2011), 30, March 2011	

36	Electronic Microarrays in Medical Field	Aquatic Biotoxins-2011, 14- 16, September 2011	Annamalai University
37	Electronic DNA microarrays in Biomedical Sciences	Biomedical applications of Nanotechnology -2011, 11- 12, Aug. 2011	RajalaksmiEngineering College, Chennai
38	Amperometry and Differential Pulse Voltammetry Basics	Electrochemical Techniques, 11-13 October 2010	
39	Ternary monolayers for efficient electrochemical sensing of DNA hybridization	Nanotechnology and	Alagappa University
40	Efficient and Reliable electrochemical DNA sensing based on ternary monolayers patteren	National conference on	National centre for Nanoscience and nanotechnology, University of Madras
41	Overview of gold thiol selfassembled monolayer approach	National conference on Nanotechnology: Current Approaches and Applications (Environ Nano- 2010), 5-6, February, 2010	
42	DNA biosensors	Short term Training course Perpectives in nanoscience and Nanobiotechnology (KU PNSNBT, 2010), 2 Nov to 10 Dec 2010	Karunya University
43	Integration of transducers in nanobiosensors, Advancements in Bioelectronics and Biosensors	18 February 2010	Institute of Road Transport and Technology- 2010Erode, India
44	Electronic Detection of DNA		Alagappa University
45	Amperometry	National workshop on Electroanalytical Techniques, 11-13 October 2010	Sinsil international CH instruments, USA Alagappa Uniersity
46	Miniaturization of biomolecular sensing analytical devices - Perspectives and Challenges	Perspectives in Nano Science and Nanobiotechnology- 2009, 4-5, March 2009	Karunya University, Coimbatore
47	Thiol-gold Self assembled monolayers for Electrical and electrochemical biomolecular sensing and applications		National Physical Laboratory, New Delhi
48	Nanodevices and its application as Biosensors	Frontiers in Nanotechnology-2009	Lady Doak College, Madurai
49	Label Free Electrochemical DNA sensors – Impacts of Miniaturization Developments and		Alagappa University

	Challenges		
50	Electrochemical DNA	National conference on	Periyar Maniyammai
	Hybridization Sensing on	Nanobiotechnology,	University
	gold surfaces	(Genomera, -2008), 24-25	
	-	July 2008	
51	Zinc Oxide Supported	Nanomaterials Driven	Alagappa University,
	Ruthenium Doped Graphitic	Advances in Chemical and	Karaikudi
	Carbon Nitride for Selective	Biosensors (NANOSE 2019),	
	Non-enzymatic Glucose	27-29 November 2019	
	Sensing In Physiological		
	Buffer		
52	Electrochemical study of bi	Nanomaterials Driven	Alagappa University,
	metal oxide decorated	Advances in Chemical and	Karaikudi
	Graphene /Graphene oxide	Biosensors (NANOSE 2019),	
	Nano composite for selective	27-29 November 2019	
	Dopamine sensing		
53	Study of lipid interaction with		Alagappa University,
	metal oxide for DNA	Advances in Chemical and	Karaikudi
	biosensing	Biosensors (NANOSE 2019),	
		27-29 November 2019	
54	Behavior of DOTAP/DOPE	Nanomaterials Driven	Alagappa University,
	Liposome on Mixed	Advances in Chemical and	Karaikudi
	Monolayer and its application		
	to Electrochemical DNA	27-29 November 2019	
	sensing Electrochemical hohemicur of	Nor o / Disto she olo gu	Louish ordel Nohrm
55	Electrochemical behaviour of	1 02	
	bi metal Oxide-	2019, 19-21 December 2019	University, New Delhi
	Graphene/Graphene oxide nanocomposite for		
	ultrasensitive detection of		
	Dopamine		
56	Electrochemical study of	Nano/Biotechnology	Iawaharlal Nehru
50	DOTAP/DOPE Liposome on	2019, 19-21 December 2019	University, New Delhi
	mixed monolayer and its	2019, 19 21 December 2019	eniversity, new Denn
	application in DNA sensing		
57	Fabrication of MnO2–TiO2 –	Two days 3rd International	Alagappa University,
57	Graphene nano structured	Conference On Applied	Karaikudi
	glassy carbon electrode for	Nanoscience And	
	selective sensing of dopamine		
	0 1	2019), March 18-19,2019	
58	Development of enzyme free	Two days 3rd International	Alagappa University,
-	selective glucose sensing at	Conference On Applied	Karaikudi
	metal doped carbon nitride	Nanoscience And	
	-	Nanotechnology(Icann-	
		2019), March 18-19,2019	
59	Development of Mn2O3 –	International Conference On	0
	TiO2-Graphene	Nanomedicine (Icon-2019),	University,Madurai-21
	nanostructured electrods for	Febraury 25-26, 2019	
	selective sensing of dopamine		
60	Single step electrical	International Conference On	0
	exfoliation of pencil graphite	Nanomedicine (Icon-2019),	University,Madurai-21
	and gold nanoparticle for	Febraury 25-26, 2019	
	label free selective DNA-p53		
	interaction		
61	Glycinated graphene and gold	India-UK Second	Bishop Heber College

69	Melatonin sensing Liposome-gold nanoparticle on different alkane modified gold surface and their	NANOMATERIALS (ICAN- 2018), 26 & 27 February, 2018 Two Days International Conference on ADVANCED NANOMATERIALS (ICAN-	Alagappa University, Karaikudi
67 68	Control of liposome vesicle structure on reduced graphene oxide transducers for sensitive label free DNA biosensing Synthesis of poly (ethylene glycol) assisted α-Fe2O3 for	Two Days International Conference on ADVANCED NANOMATERIALS (ICAN- 2018), 26 & 27 February, 2018 Two Days International Conference on ADVANCED	Alagappa University, Karaikudi Alagappa University, Karaikudi
66	-	National conference on Advances in Functional materials-NCAFM'19, 21 st - 22 nd March 2019	SSN college of engineering ,Chennai
65	Electrochemical behavior of hydrophilic thiol monolayer anchored lipid-gold nanoparticles functionalized protein and DNA.	69th Annual Meeting of the International Society of Electrochemistry (ISE), Bologna, Italy, 2- 7th September 2018.	the International Society of Electrochemistry
64	Carbon dot capped silver nanoparticle-lipid based electrochemical DNA sensor	69th Annual Meeting of the International Society of Electrochemistry (ISE), Bologna, Italy, 2- 7th September 2018.	the International Society of Electrochemistry
63	Impact of Organic Solvents on the Direct Attachment of Graphene Oxide on Gold Electrode for Electrochemical Sensing of Paracetamol	India-UK Second International Conference on Energy, Environment and	Bishop Heber College
62	Non-enzymatic glucose sensing at graphitic carbon nitrite modified electrode	India-UK Second International Conference on Energy, Environment and Healthcare Applications (ANEH-2019), 04-06, Feburary 2019	Bishop Heber College
	nanoparticle nano hybrids for label free Selective sensing of lung cancer DNA-anti p53 antibody binding	04-06, Feburary 2019 Energy, Environment and Healthcare Applications (ANEH-2019)	

	solvents for electrochemical sensing of acetaminopen	2017	
72		International Conference on Frontier Areas in Chemical Technologies, 6-8th July 2017	Alagappa University, Karaikudi
73	Simultaneous sensing of Melatonin, Dopamine and Acetaminophen at Iron	International conference on renewable energy science and technology, 10-11March, 2017	Alagappa University Karaikudi
74	oxide by electrical exfoliation of pencil graphite and gold	International conference on renewable energy science and technology, 10-11, March 2017	Alagappa University Karaikudi
75	on gold surface for electrochemical DNA sensing	renewable energy science	Alagappa University Karaikudi
76	Graphene oxide -Single	2017), 27 - 28, March 2017	Alagappa University Karaikudi
77	Synthesis and Characterization of Cobalt	National Conference on Futuristic Materials (NCFM- 2017), 27 - 28, March 2017	Alagappa UniversityKaraikudi-630 003
78	the structural, luminescent	National Conference on Futuristic Materials (NCFM- 2017), 27 - 28, March, 2017	Alagappa University Karaikudi-630 003
79	analysis of nano structure	National Conference on Futuristic Materials (NCFM- 2017), 27 - 28, March 2017	Alagappa UniversityKaraikudi-630 003
80	Alkali earth metal doped bismuth silicate ferroelectric	National Conference on Futuristic Materials (NCFM- 2017), 27 - 28, March 2017	Alagappa University Karaikudi-630 003
81	temperature on structural	National Conference on Futuristic Materials (NCFM- 2017), 27 - 28, March 2017	Alagappa UniversityKaraikudi-630 003
82	Biocompatible Zinc oxide-	International Conference on Recent trends in	Alagappa University Karaikudi-630 003

	nanotube-poly(vinyl chloride) composite for glucose sensing	Microbiology, 01-04, Mar- 2016	
83	Growth and characterization of chemical bath deposited plumbous oxide thin films	International conference on Materials Science &Technology, 01-04, Mar- 2016	University of Delhi, Delhi
84	Effects of precipitating agents on surface texture and magnetic properties of Dy2O3 nano powder	Materials Science &Technology, 01-04, Mar- 2016	University of Delhi, Delhi
85	Studies of self-assembled binary mixed monolayer for label free DNA hybridization electrochemical sensing on liposome-gold nanoparticle composite tethered on gold transducer	Frontier Areas in Chemical Technologies, 21-23, March 2016	Alagappa University Karaikudi
86	The behavior of binary lipid on different chain length thiol monolayer modified gold electrode.	Frontier Areas in Chemical Technologies, 21-23, March 2016	Alagappa University Karaikudi
87	Dynamic sensing of L-dopa using zinc oxide-reduced graphene oxide film.	Frontier Areas in Chemical Technologies, 21-23, March 2016	Alagappa University Karaikudi
88	Dynamic sensing of ascorbic acid, dopamine and uric acid at electrochemically exfoliated graphene oxide- gold nanoparticle by electrochemical methods	Frontier Areas in Chemical Technologies, 21-23, March 2016	Alagappa University,Karaikudi
89	Temperature dependant anatase titanium dioxide thin film prepared by electrodeposition technique.	Frontier Areas in Chemical Technologies, 21-23, March 2016	Alagappa UniversityKaraikudi
90	A novel cobalt doped Dy2O3 nanoparticle synthesized by co-precipitation method.	Frontier Areas in Chemical Technologies, 21-23, March 2016	Alagappa University, Karaikudi
91	Structural and morphological properties of polypyrrol doped Sb2S3 thin film.	Frontier Areas in Chemical Technologies, 21-23, March 2016	Alagappa University, Karaikudi
92		Frontier Areas in Chemical Technologies, 21-23, March 2016	Alagappa University, Karaikudi
93	The roles of portic solvents on CdS thin films prepared by chemical bath deposition technique	Frontier Areas in Chemical Technologies, 21-23, March 2016	Alagappa University, Karaikudi
94	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), 14-15, Dec. 2015	Gandhigram Rural Institute, Dindugal
95	L-Dopa detection at zinc	International conference on	Gandhigram Rural

			Institute, Dindugal
	oxide modified electrode	and chemical sciences (ICRAMCS-2015), 14-15,	
		Dec. 2015	
96	uric acid at electrochemically exfoliated graphene oxide- gold nanoparticles	International conference on recent advance in materials and chemical sciences (ICRAMCS-2015), 14-15, Dec. 2015	Gandhigram Rural Institute, Dindugal
97	Structured ZnO Thin Film for Dye Sensitized Solar Cell Applications	Energy, 21-25 Dec-2015	Amity University, Noida
98		National Conference On Recent Advances In Chemical Sciences (RACS- 2015), 5 – 6, MARCH 2015	Gandhigram Rural Institute, Dindugal
99	Simultaneous determination of ascorbic acid, uric acid and	Recent Advances In Chemical Sciences (RACS-	Gandhigram Rural Institute, Dindugal
100		National seminar on frontier areas in chemical technologies –(FACTs- 2015), 6-7,March 2015	Alagappa University, Karaikudi
101	Simultaneous sensing of ascorbic acid, uric acid and dopamine at 24rapheme	National seminar on frontier areas in chemical technologies –(FACTs- 2015), 6-7 March 2015	Alagappa University, Karaikudi
102	Zinc oxide- 24rapheme oxide modified electrode for L-dopa sensing		Department of Chemistry, Kandaswami Kandar's College, Velur
103	Influence of organic solvents on the direct attachment of 24rapheme oxide on gold electrode for electrochemical sensing of acetaminophen	National Seminar on Recent Advances in Chemistry, 13- 14, Aug 2015	Department of Chemistry, Kandaswami Kandar's College, Velur
104	Effect of gold 24rapheme24cles on lipid structure control on gold	Indo-Australian Conference on "Biomaterials Tissue Engineering, Drug Delivery System & Regenerative Medicine, 5-7. February 2015	Anna University, Chennai
105	Effect of binary lipid and gold nanoparticle anchored on thiol monolayer on gold electrode		Gandhigram Rural Institute

116	Liposome and AuNP nano composite for Label free DNA Sensing	International Conference on	Alagappa University Karaikudi
115	Label free DNA Sensing at Liposome-AuNP nano composite	Second International Workshop on Advanced Function Nanomaterials (SIWAN-2013), 28-30, January 2013	Anna University, Chennai
114	An enzymatic glucose sensing at polypyrrole-ruthenium oxideglucose oxidase composite	International Conference on "Recent Advances in Textile and Electrochemical Sciences (RATES-2013, 20 - 21, September 2013	
113	Novel Liposome-gold Transducer for Electrochemical DNA Sensing	International Conference on "Recent Advances in Textile and Electrochemical Sciences (RATES-2013), 20 - 21, September 2013	Karaikudi
112	Selective Oxidation of Glucose at Ruthenium oxide Graphene oxide Nano Complex	Indo-Japan workshop on Biomolecular Electronics &	Delhi Technological University, Delhi, India
111	Hydrogen Peroxide Sensing Ruthenium oxide– gold nano modified electrode	Recent Advances in Surface Sciences (RASS-2013), 14- 15, February 2013	Gandhigram Rural Institute
110	Liposome gold nano composite for electrochemical DNA sensing	Indo-French seminar on Bioinorganic approaches to current health problems, 24- 28, March 2014	Pondicherry University
109	Electrochemical DNA sensing in presence of inorganic metal complexes and organic dyes	Indo-French seminar on Bioinorganic approaches to current health problems, 24- 28, March 2014	Pondicherry University
108	cationic liposome interaction with gold nanoparticle on gold transducer for DNA sensing	Second International conference on Nanostructured Materials and Nanocomposites (ICNM 2014), 19-21 Dec, 2014	
107	exfoliated graphene oxide- gold nanoparticles	Recent advance in materials and chemical sciences (ICRAMCS-2015), 14 & 15th December 2015	Gandhigram Rural Institute
106	L-Dopa detection at zinc oxide- reduced graphene oxide modified electrode	International Conference on Recent advance in materials and chemical sciences (ICRAMCS-2015), 14 & 15th December 2015,	Gandhigram Rural Institute

		30, January 2013	
117	DNA Sensing	National Conference on Recent Advancements in Nanomaterials for Sensor, Applications (NANOSE-12), 8 - 9 March 2012	Alagappa University Karaikudi
118	Oxide – ZrO using Glassy Carbon Nano Composite Modified Electrode	International Conference on Recent Advances in Textile and Electrochemical Sciences (RATES-2013), 21- 23, March 2013	Alagappa University Karaikudi
119	film and its Charectrization	Recent Advances in Textile and Electrochemical sciences, 21-23, March 2013	Alagappa University Karaikudi
120		17th National Convention of Electrochemist (NCE-17), 14 -15, September 2012	CECRI, B.S Abdur Rahman University,Chennai
121	Ruthenium oxide-gold 26rapheme26cles film for the direct electrochemical hydrogen peroxide sensing: Effect of	Indo-Japan workshop on	Delhi Technological University, Delhi,India
122	Fabrication of Graphene Oxide Gold nano sheets and characterization for glucose	International Conference on Recent Advances in Textile and Electrochemical Sciences (RATES-2013), 21-23, March 2013	Alagappa University Karaikudi
123	Electrochemical synthesis of grapheme gold nano films for DNA sensing	International Conference on	BITS, Pilani-K.K. Birla GOA Campus, India
124	Selective glucose sensor based on Ruthenium dioxide-	Recent Advances in Surface	Gandhigram Rural Institute
125	Electrochemical sensing of DNA at DOTAP-DOPE-AuNP	Recent Advances in Surface Sciences (RASS-2013), 14- 15, Feb. 2013	Gandhigram Rural Institute
126	DNA hybridization Electrochemical Biosensor using a Functionalized	Sixteenth National Convention of Electrochemists (NCE-16), 15-16, Dece. 2011	Central Electrochemical Research Institute, karaikudi and P.S.G.R. Krishnammal College for women, Coimbatore
127	using Ruthenium Oxide- Nafion films	National Conference on Recent Advancements in Nanomaterials for Sensor Applications (NANOSE-12), 8-9, March 2012	Alagappa University
128	RuO2-PVC film for glucose	National Conference on Recent Advancements in	Alagappa University

	media	Nanomaterials for Sensor Applications (NANOSE-12), 8-9, March 2012	
129.	Synthesis and Characterization of grapheme core poly Amido amine (PAMAM) dendrimer	National Conference on Recent Advancements in Nanomaterials for Sensor Applications (NANOSE-12), 8-9, March 2012	Alagappa University
130	Graphene core G2PAMAM dendrimer gold nanofilms for label free DNA sensing	9th International Workshop on Nanomechanical Sensing-2012	IIT Bombay, Mumbai
131	Electrochemical sensing of DNA and Liposomes	Sixteenth National Convention of Electrochemists (NCE-16)- 2012, 15-16, Dece. 2011	Society for Advancement of Electrochemical science and Technology (SAEST) Karaikudi
132	RuO ₂ -PVC-Nafion ionomer composites for selective and sensitive glucose sensing in neutal and alkaline solutions	Sixteenth National Convention of Electrochemists (NCE-16)- 2012, 15-16, Dece. 2011	Society for Advancement of Electrochemical science and Technology (SAEST) Karaikudi
133	Electrochemical Dopamine sensing in the presence of ascorbic acid and Uric acid at RuO2-Nafion modified GC electrodes	Sixteenth National Convention of Electrochemists (NCE-16)- 2012, 15-16, Dece. 2011	Society for Advancement of Electrochemical science and Technology (SAEST) Karaikudi
134	Ruthenium oxide Nafion gold nano particle composite for enzyme free hydrogen peroxide sensor	Sixteenth National Convention of Electrochemists (NCE-16)- 2012, 15-16, Dece. 2011	Society for Advancement of Electrochemical science and Technology (SAEST) Karaikudi
135	Efficient and reliable electrochemical sensing of DNA hybridization at ternary layers	National Conference on Nanoscience and Nanotechnology-2011, 25- 27, Aug. 2011	University of Madras
136	Construction of Ternary Mixed Monolayers for the Effective Label Free Electrochemical DNA Sensing	National Seminar on Advancements in Bioelectronics and Biosensors (NSABB'09)- 2009.	Alagappa University, Karaikudi
137	Method of Improving Target Hybridization Efficiency at the Single Stranded DNA- Thiol Diluent Binary mixed monolayers for Effective Label Free Electrochemical method	National Seminar on Advancements in Bioelectronics and Biosensors (NSABB'09)- 2009.	Alagappa University, Karaikudi
138	Label free Detection of DNA hybridisation on electrical micro arrays by charge injection technique	8th World Congress on Biosensors-2004	Granada, Spain,