



**Dr. S. VISWANATHAN**  
**Assistant Professor**

### Contact

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

**Teaching Experience: 10 Years**

**Research Experience: 19 Years**

### Additional Responsibilities

1. In charge - Continuous internal assessment for M.Sc, M.Phil, Ph.D
2. In Charge -Department Library

### Areas of Research

Electrochemistry, Analytical chemistry, Biochemistry, Biosensor

## Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	-	3
	M.Phil.	5	2
Project	PG	15	4

## Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
35	48	1	18	4

Cumulative Impact Factor (as per JCR) :	139
h-index :	20
i10 index :	28
Total Citations :	1338

## Funded Research Projects

### Completed Projects

S. No	Agency	Period		Project Title	Budget
		From	To		
1	FCT, Portugal	2011	2014	Nano-electrode arrays Biosensor for Early and Decentralized Breast-Cancer Diagnosis. <i>Role. P.I</i>	€112547
2	FCT, Portugal	2010	2013	Cephalopods-Benefits and risks of consumption: Evaluation of biomarkers responses to organic pollution. <i>Role. Co.P.I</i>	€153796

## Consultancy Projects: 1

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	TNCPL. Karaikudi	2016	2017	Ground water analysis	5.0

## Distinctive Achievements / Awards

1. Extended senior research fellow- Council of industrial research and development, India-2003.
2. Marie Curie Postdoctoral fellow- European Union Marie Curie Actions - Transfer of Knowledge- 2007.

## Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 03

1. International conference on Frontier Areas in Chemical Technologies – 2016
2. International workshop on Frontier Areas in Chemical Technologies – 2014
3. International conference on recent advances in textile and electrochemical sciences, 2013

## Events Participated

### International Conferences:

1. 5th International Conference on electroanalysis 11-15 June 2014, Sweden.
2. VI Workshop on Analytical Nanoscience and Nanotechnology (VINyNA2013), 8&9 July 2013, Universidad de Alcala, Madrid, Spain.
3. 63rd Annual Meeting of the International Society of Electrochemistry, Prague, Czech Republic. 19-24 August, 2012
4. NanotechItaly2010, October 21-23, National Research Council (CNR) and Veneto nanotech, Venice, Italy.
5. Biosensors 2012, Cancun, Mexico, May, 15-18, 2012.
6. XX Congresso da Sociedade Iberoamericana de Electroquímica, Fortaleza, Brasil, pp. 137, 25-30 March, 2012.
7. 1st symposium on subsoil characterization and remediation SSCR, 4 June, 2012, University of Porto, Porto, Portugal.

8. NanotechItaly2010, October 21-23, National Research Council (CNR) and Veneto nanotech, Venice, Italy.
9. The 61st annual meeting of the international society of electrochemistry, ISE, September 26th - October 1st, 2010, Nice, France.
10. 13th International conference on electroanalysis, European Society of electro-analytical chemistry, June 20-24, 2010, Gijon, Spain.
11. Analytical chemistry IETCAQ, University of Minho, 07-May-2010, Minho, Portugal.
12. Application of multimolecular layers in chemical and biochemical sensors. Summer School II Polish Academy of Sciences, Lansk, Poland.
13. The 234th ACS National Meeting, Boston, MA, USA. August 19-23, 2007.
14. International conference on chemical and bioprocess engineering. 27-29 August 2003, University of Malaysia, Malaysia.

### **Other Training Programs**

1. Summer School I Polish Academy of Sciences, Olsztyn, Poland. September 16-28, 2007
2. Summer School II Polish Academy of Sciences, Olsztyn, Poland. September 14-24, 2008
3. Orientation Programme, Curriculum Development Cell, Alagappa University, Karaikudi Date: August 24-31, 2012
4. UGC-Orientation programme, UGC-Academic Staff College, Bharathidasan University, Trichy, Date 28.01.2015 to 24.02.2015
5. UGC-Refresher Course in Chemistry, UGC-Human Resource Development Centre, Bharathiar University, Coimbatore – 46, Date: 15.07.2016 to 04.08.2016

### **Overseas Exposure / Visits**

1. Taiwan
2. Poland
3. Portugal
4. Italy
5. France
6. Spain
7. Germany

## Membership in

### Professional Bodies

1. Member - International Society of Electrochemistry

### Editorial Board

1. International Journal of Nanoparticles

### Advisory Board

1. GRAQ, ISEP, Portugal

### Academic Bodies

1. Department Board of Studies
2. Department Research council

## Resource persons in various capacities

Number of Invited / Special Lectures delivered: 7

## Others

1. Articles published in Newspapers / Magazines : 1
2. No. of PhD Thesis evaluated : 1
3. No. of PhD Public Viva Voce Examination conducted : 1

## Recent Publications

1. H da Silva, J Pacheco, J Silva, S. Viswanathan, C Delerue-Matos, 2015, Molecularly imprinted sensor for voltammetric detection of norfloxacin, Sensors and Actuators B: Chemical Vol. 219, 301-307 (SCI) IF= 4.758
2. S. Viswanathan and P. Manisankar, 2014, Nanomaterials for Electrochemical Sensing and Decontamination of pesticides, Journal of Nanoscience and Nanotechnology, Vol. 15 (9), 6914-6923 (SCI) IF= 1.149.
3. R.C.B. Marques, S. Viswanathan, H.P.A. Nouws, C. Delerue-Matos, M. B. González-García, 2014, Electrochemical immunosensor for the analysis of the breast cancer biomarker HER2 ECD, Talanta, Vol.129, 594-599. (SCI) IF= 4.035.
4. Ribeiro, F.W.P., Barroso, M.F., Morais, S., Viswanathan, S., de Lima-Neto, P., Correia, A.N., Oliveira, M.B.P.P., Delerue-Matos, C. 2014, Simple laccase-based biosensor for formetanate hydrochloride quantification in fruits, Bioelectrochemistry, Vol.95 , 7 - 14 IF=3.947

5. S. Viswanathan, 2014, Electrochemical biosensors for food-borne pathogens In *Microbial Food Safety and Preservation Techniques* Eds. V Ravishankar Rai, Jamuna A. Bai. CRC Press, Taylor& Francis Group, FL, USA.in press. (Book Chapter)
6. H.Silva, J.P. Grosso, S. Viswanathan,\* C. Delerue-Matos, 2014, MIP-graphene-modified glassy carbon electrode for the determination of trimethoprim, *Biosensors and Bioelectronics*, Vol 52, 56-61 (SCI) IF= 7.476
7. M. Freitas, S. Viswanathan,\* H.P.A. Nouws, M.B.P.P. Oliveira, C. Delerue-Matos, 2014, Iron oxide/gold core/shell nanomagnetic probes and CdS biolabels for amplified electrochemical immunosensing of *Salmonella typhimurium*, *Biosensors and Bioelectronics*, Vol 51, 195-200 (SCI) IF= 7.476
10. V. Rajasekharan, T. Stalin, S. Viswanathan and P. Manisankar, 2013, Electrochemical Evaluation of Anticorrosive Performance of Organic Acid Doped Polyaniline Based Coatings *Int. J. Electrochem. Sci.*, 8, 11327 - 11336 (SCI) IF= 1.692
11. Túlio I.S. Oliveira, Marcela Oliveira, Subramanian Viswanathan, M. Fátima Barroso, Luísa Barreiros, Olga C. Nunes, José A. Rodrigues, Pedro de Lima-Neto, Selma E. Mazzetto, Simone Morais, Cristina, 2013, Delerue-Matos, Molinate quantification in environmental waters by a Glutathione-S-transferase based biosensor, *Talanta*, 106, 249-254. (SCI) IF= 4.035
12. S. Viswanathan, C.Rani, J.A. Ho. 2012, Electrochemical immunosensor for multiplexed detection of food-borne pathogens using nanocrystal bioconjugates and MWCNT screen-printed electrode. *Talanta*, Vol. 94, 315-319. (SCI) IF= 4.035
13. Virgínia C. Fernandes, Viswanathan S, Nuno Mateus, Valentina F. Domingues, Cristina Delerue-Matos, 2012, Determination of organochlorine pesticides in complex matrices by single-drop microextraction coupled to gas chromatography-tandem mass spectrometry, *Microchimica acta*, Vol. 178 (1-2), 195-202. IF= 4.831
14. S. Viswanathan, C. Rani, C. Delerue-Matos, 2012, Ultrasensitive detection of ovarian cancer marker using immunoliposomes and gold nanoelectrodes, *Anal. Chim. Acta*. Vol.726, 79-84. IF= 4.712
15. M. Oliveira, S. Viswanathan, S .Morais, C. Delerue-Matos, 2012, Development of Polyaniline Microarray Electrodes for Cadmium Analysis, *Chemical Papers*, Vol. 66 (10) 891-898. IF= 1.96
16. S. Viswanathan, C. Rani, S. Ribeiro, C. Delerue-Matos, 2012, Molecular imprinted nanoelectrodes for ultra sensitive detection of ovarian cancer marker, *Biosensors and Bioelectronics* Vol.33 (1), 179-183. (SCI) IF= 7.476
17. Ana Pinho, S. Viswanathan, S. Ribeiro, M. B. P. P. Oliveira, C. Delerue-Matos, 2012, Electroanalysis of urinary L-dopa using tyrosinase immobilized on gold nanoelectrode ensembles, *Journal of Applied Electrochemistry* Vol. 42 (3), 131-137. (SCI) IF= 2.223
18. S.Viswanathan, *Nanomaterials in soil and food analysis*. In *Encyclopedia of Agrophysics*. 2014, Glinski, Jan; Horabik, Józef; Lipiec, Jerzy (Eds.) Springer, ISBN: 978-90-481-3585-1