



C.SUMATHI
MASTER TECHNICIAN

Contact

Address : Department of Bioelectronics and Biosensors
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Academic Qualifications: B.E., M.Sc.,

Teaching Experience: 08 Years

Research Experience: 05 Years

Areas of Research

Bioelectronics, Biosensors

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
12	-	-	-	-

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized:

Organizing secretary in

1. 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 World Water Day on 24.03.2015 in the department of Bioelectronics and Biosensors

Events Participated

Conferences / Seminars / Workshops:

1. Conferences - 8
2. Seminars - 5
3. Workshops - 2

Overseas Exposure / Visits

1. Visited Dubai

Recent Publications

No.	Research Publications	IF
12	C.Sumathi, P.Muthukumaran, P.Thivya, J.Wilson* and G.Ravi DNA mediated electrocatalytic enhancement of α - Fe ₂ O ₃ -PEDOT-C-MoS ₂ hybrid nanostructures for riboflavin detection on screen printed electrode RSC Adv. , 2016, 6, 81500.	3.2
11	C. Sumathi, C. Venkateswara Raju, P. Muthukumaran, J. Wilson and G. Ravi, Au-Pd bimetallic nanoparticles anchored on α -Fe ₂ O ₃ non enzymatic hybrid nano electrocatalyst for simultaneous electrochemical detection of dopamine and uric acid in the presence of ascorbic acid. J.	4.8

	<i>Mater. Chem. B</i>, 2016,4, 2561-2569.	
10	Muthukumaran P. Chikkili Venkateswara Raju, Sumathi C. Ravi G. Solairaj D. Rameshthangam P. Wilson J,* Sathish Rajendran and Subbiah Alwarappan* Cerium doped nickel-oxide nanostructures for riboflavin biosensing and antibacterial applications <i>NewJ.Chem.</i> , 2016, 40, 2741.	3.2
9	C. Sumathi, P. Muthukumaran, S. Radhakrishnan, G. Ravi, J. Wilson, Riboflavin detection by α - Fe ₂ O ₃ /MWCNT/AuNPs-based composite and a study of the interaction of riboflavin with DNA, RSC Advances 5(2015)17888-17896.	3.2
8	C. Sumathi, P. Muthukumaran, S. Radhakrishnan, J. Wilson, Controlled growth of single-crystalline nanostructured dendrites of α -Fe ₂ O ₃ blended with MWCNT: a systematic investigation of highly selective determination of L-dopa, RSC Advances 4 (2014) 23050-23057.	3.2
7	S. Radhakrishnan, C. Sumathi, J.Wilson , V. Dharuman, Polypyrrole-poly(3,4-ethylenedioxythiophene)-Ag (PPy-PEDOT-Ag) nano composite films for label-free electrochemical DNA sensing, Biosensors and Bioelectronics 47 (2013)133-140.	6.5
6	C. Sumathi, P. Muthukumaran, S. Radhakrishnan, G. Ravi, J. Wilson, Riboflavin detection by α - Fe ₂ O ₃ /MWCNT/AuNPs-based composite and a study of the interaction of riboflavin with DNA, RSC Advances 5(2015)17888-17896.	3.2
5	C. Sumathi, P. Muthukumaran, S. Radhakrishnan, J. Wilson, Controlled growth of single-crystalline nanostructured dendrites of α -Fe ₂ O ₃ blended with MWCNT: a systematic investigation of highly selective determination of L-dopa, RSC Advances 4 (2014) 23050-23057.	3.2
4	S. Radhakrishnan, C. Sumathi, J.Wilson , V. Dharuman, Polypyrrole-poly(3,4-ethylenedioxythiophene)-Ag (PPy-PEDOT-Ag) nano composite films for label-free electrochemical DNA sensing, Biosensors and Bioelectronics 47 (2013)133-140.	6.5
3	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.	1.9
2	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.	1.9
1	J. Wilson , S. Radhakrishnan, C.Sumathi, V. Dharuman, Polypyrrole-Polyaniline-Au (PPy-PANi-Au) nanocomposite films for label-free electrochemical DNA sensing, Sensors and Actuators B 171-172 (2012) 216-222.	3.7