




PROFILE

Name:	Dr. J. Sophia		
Department	Physics		
Designation	Assistant Professor		
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Teaching Experience	UG: 3	PG: 3	

Recognised Educational Qualifications

S. No.	QUALIFICATION	INSTITUTION	BOARD/ UNIVERSITY	YEAR OF PASSING
1	B.Sc.	Arul Anandar College, Karumathur	Madurai Kamaraj University	2007
2	M.Sc.	The American College, Madurai	Madurai Kamaraj University	2009
3	M.Phil.	School of Physics, Madurai Kamaraj University	Madurai Kamaraj University	2010
4	Ph.D.	Gandhigram Rural Institute – Deemed University, Gandhigram	Gandhigram Rural Institute – Deemed University, Gandhigram	2016
5	SET (TNSET)	-	Mother Teresa University, Kodaikanal	2018

Publications (Contributions in Journals/Edited Books/Proceedings)

Title of the Paper	International Journal	Volume and No	Page Nos	Impact Factor	Publisher
Preparation of vinyl polymer stabilized silver nanospheres for electroanalytical determination of H ₂ O ₂	Sensors and Actuators B: Chemical	193 (2014)	149-156	7.1	Elsevier
Polyvinylpyrrolidone stabilized palladium nanospheres as simple and novel electrochemical sensor for amperometric hydrogen peroxide detection	Journal of Electroanalytical Chemistry	739 (2015)	115-121	3.807	Elsevier
Gold nanoparticles for sensitive detection of hydrogen peroxide: a simple nonenzymatic approach	Journal of Applied Electrochemistry	45(9) (2015)	963-971	2.384	Springer
Amperometric sensing of hydrogen peroxide using glassy carbon electrode modified with copper nanoparticles	Materials Research Bulletin	70 (2015)	315-320	4.019	Elsevier
Mechanism of poly (vinylpyrrolidone) in the stabilization of silver particles	Asian Journal of Chemistry	25 (2013)	S 100	-	-
On the optical and thermal properties of in situ/ex situ reduced Ag NP's/PVA composites and its role as a simple SPR-based protein sensor	Applied Nanoscience	1 (2) (2011)	87-96	2.880	Springer

Papers presented in Seminars/Conferences/Workshop

Title of the Paper	Title of the Seminar/conference/Workshop	Level of Seminar/Conference/Workshop	Organising Institution	Date
Mechanism of Polyvinylpyrrolidone in the Stabilization of Silver Nanoparticles	International Conference on Nanoscience and Nanotechnology (ICONN-2013)	International	SRM University, Kattankulathur, Chennai	18-20, March 2013
Workshop	II National Workshop on Characterization Techniques, (NWCT-2)	National	Alagappa University, Karaikudi	21-23, March 2013
Nanomaterial for Sensor Applications	Recent Trends in Advanced Materials	National	Jayaraj Annackiam College, Periyakulam	5 th & 6 th February 2013
Multiple Role of Polyvinylpyrrolidone in the Synthesis of Silver Nanoparticles	Tamil Science Conference	National	Gandhigram Rural Institute – Deemed University	26-27, June 2011
Effectiveness of ICT in Education	TNSCST Sponsored National Conference on “DIGITAL VISION – 2020”	National	Jayaraj Annackiam College, Periyakulam	5 th & 6 th March, 2010