



# INTERNATIONAL JOURNAL OF NANO CORROSION SCIENCE AND ENGINEERING.

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## *Profile*



(ALL IN BLOCK LETTERS Font - Times New Roman Font Size -11)

**Name** : Dr. H. BENITA SHERINE

**Gender** : Female

**Department** : Chemistry

**Educational Qualification** :

S. No.	Degree / Diploma	Subject / Main	Name of the College / University
1.	U.G.	CHEMISTRY	Holy Cross College, Tiruchy
2.	P.G.	CHEMISTRY	Bishop Heber College, Tiruchy

<b>3.</b>	M.Phil.	CHEMISTRY	St. Joseph's College, Tiruchy
<b>4.</b>	Ph.D.	CHEMISTRY	Jamal Mohamed College, Tiruchy
<b>5.</b>	NET/CSIR/SLET	-	
<b>6.</b>	Others	-	

**Technical qualification:**

S. No.	Degree / Diploma	Subject / Main	Name of the College / University
<b>1.</b>	Bio-Informatics	Bio-Informatics	Holy Cross College, Tiruchy
<b>2.</b>			
<b>3.</b>			
<b>4.</b>			
<b>5.</b>			

✓ **Aided**  **Management** Shift I  Shift II

Teaching Experience at Holy Cross College: 15Years 6 Months

Teaching Experience outside Holy Cross College: \_\_\_-\_\_\_\_\_ Years

**Total Teaching Experience: 15Years 6 Months**

**Positions Held** (VP / Dean/ HOD / Director/ Overall Coordinator etc.)

<b>S. No.</b>	<b>Name of the Position</b>	<b>Period</b>
<b>1.</b>		
<b>2.</b>		

**Memberships in academic bodies(Board of studies, Doctoral Committee Member)**

1. . **Member – Board of studies, Srimad Andavar Arts and Science College, Srirangam, Tiruchy**
2. . **Doctoral Committee Member - Jamal Mohamed College, Tiruchy**
3. .
4. .
5. .
6. .

**E-lessons developed:**

<b>S.No</b>	<b>Title of e-lessons</b>
<b>1.</b>	
<b>2.</b>	
<b>3.</b>	
<b>4.</b>	
<b>5.</b>	
<b>6.</b>	
<b>7.</b>	
<b>8.</b>	

<b>9.</b>	
<b>10.</b>	

**Research:**

*M.Phil.*

Guided:           03

Guiding:

*Ph.D.*

Guided:           01

Guiding:

Co-guiding:

**Books Published:**

<b>S. No.</b>	<b>Title</b>	<b>Year</b>	<b>Publisher</b>	<b>Place</b>
<b>1.</b>				
<b>2.</b>				

**Journal / Articles Published: (Attach the list using the format given below)**

Benita Sherine H., Amala Fathima Rani., (2009). A Study on Treatment Methods for Sugarcane Effluent. *Indian Journal of Environmental Protection*. 29 (10): 896-901.

Benita Sherine H., Jamal Abdul Nasser A., Rajendran S. (2009). m-Nitrophenol as a Corrosion Inhibitor for Carbon Steel. *Journal of the Electrochemical Society of India*. 58 (1/2): 30-36.

Benita Sherine H., Nooreen Antony A., Jamal Abdul Nasser A., Rajendran S. (2009). Thiophenol as a corrosion inhibitor for carbon steel. *Journal of the Electrochemical Society of India*, 58 (3/4): 69-77.

Benita Sherine H., Nooreen Antony A. (2009). Investigation of the Inhibiting effect of carboxymethyl cellulose – Zn<sup>2+</sup> system on the corrosion of carbon steel in neutral chloride solution. *The Arabian Journal for Science and Engineering*. 35(2A): 21 – 33.

Benita Sherine H., Jamal Abdul Nasser A., Rajendran S. (2010). Inhibitive action of hydroquinone-Zn<sup>2+</sup> in controlling the corrosion of carbon steel in well water. *International Journal of Engineering Science and Technology*. 2(4): 341-357.

Benita Sherine H., Nooreen Antony A., Susai Rajendran. (2010). Investigation of the inhibiting effect of nano film by sodiummeta silicate – Zn<sup>2+</sup> system on the corrosion of carbon steel in neutral chloride solution. *Zastita Materijal. 51(broj 1):11-18.*

Benita Sherine H., Nooreen Antony A., Rajendran S (2010) Evaluation of Co – Inhibition characteristics of caffeine – Zn<sup>2+</sup> system in preventing carbon steel corrosion. *International journal of Engineering Science and Technology. 2 (7): 2774 – 2782.*

Benita Sherine H., Nooreen Antony A., Susai Rajendran. (2010) Inhibition and Biocide Actions of Sodium Dodecyl Sulfate- Zn<sup>2+</sup> system for the Corrosion of Carbon Steel in Chloride Solution. *Portugaliae Electrochimica Acta 28 (1):1-14.*

Benita Sherine H., Nooreen Antony A., (2010) Inhibitive action of polyacrylamide in controlling the corrosion of carbon steel in chloride media. *The journal of Electrochemical Society of India, 59 (3): 75 – 81.*

Benita Sherine H., Jamal Abdul Nasser A., Rajendran S. (2010) Inhibitive of corrosion of carbon steel by resorcinol-Zn<sup>2+</sup> system. *S-JPSET 1(2):115-123*

Benita Sherine H., Rajendran S. (2011) Corrosion inhibition of Carbon steel in ground water by Thiophenol –  $Zn^{2+}$  system. *The Arabian journal for science and Engineering*, 36 (4):517-528.

Benita Sherine H., Felci Sagaya Mary S., Rajendran S. (2011). Inhibitive action of catechol –  $Zn^{2+}$  system in controlling in the corrosion of carbon steel. *Bulgarian journal of chemical communication*. 43 (4):544-551.

Benita Sherine H., Jency Angela., Rajendran S (2011). o-Nitro phenol as a Corrosion Inhibitor for Carbon Steel. *Asian Journal of Research in Chemistry*. 4 (4): 629-635.

Benita Sherine H., Rajakumari C C., Rajendran S (2011). Corrosion behavior of stainless steel 304 electroplated with zinc followed by Blue passivation. *Portugaliae Electrochimica Acta*. 29 (4):295-305.

Benita Sherine H., (2011) Corrosion behavior of stainless steel 304 electroplated with zinc followed by yellow passivation. *Journal of the Electrochemical society of India*. 60 (1/2):1-7.

Benita Sherine H., Jency Angela., Rajendran S (2011) Synergistic effect of p – Nitro phenol -  $Zn^{2+}$  system in controlling the corrosion of carbon



steel in ground water. *Journal of the Electrochemical society of India*.60  
1/2: 28 – 34.

**Conference/Seminar/Workshop/ Training Programme attended -**

Academic & General:

*(Last five years)*

<b>S. No.</b>	<b>Theme</b>	<b>Place</b>	<b>International / National / State level</b>	<b>Year</b>	<b>Resource Person / Paper Presentation / </b>
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					<b>Participation</b>
<b>1.</b>	Synergistic effect of resorcinol-Zn <sup>2+</sup> system as corrosion inhibitor for mild steel in well water - National Conference on Recent Advances in Surface Engineering (RASE-09)	National Aerospace Laboratories Bangalore	National	2009	Paper Presented
<b>2.</b>	Inhibitive action of o-nitrophenol in controlling the corrosion of carbon steel in ground water - National Seminar on Recent Advances in	A.V.C. College, Mayiladuthurai	National	2009	Paper Presented

	Chemistry (NSRAC-09)-UGC sponsored				
3.	Inhibitive and biocidal action of phenol-Zn <sup>2+</sup> in controlling the corrosion of carbon steel in well water - National Symposium on Electrochemical Science and Technology (NSEST 2009)	Indian Institute of Science, Bangalore	National	2009	Paper Presented
4.	Thiophenol as a corrosion inhibitor for mild steel in presence of Mn <sup>2+</sup> ions.	Bishop Heber College, Tiruchirappalli	National	2009	Paper Presented
5.	Inhibitive action of Catechol – Zn <sup>2+</sup> in controlling the	Department of Industrial Chemistry, School of	National	2009	Paper Presented

	corrosion of carbon steel in ground water - National Conference on Recent Advances in Textile and Electrochemical Sciences, RATES 2009	Chemistry, Alagappa University, Karaikudi			
6.	An Eco-friendly Inhibitor for the control of corrosion of carbon steel in Ground water - International Conference on Green Chemistry and Sustainable Environment, GCASE – 2010 (Sponsored by CSIR, DRDO)	Department of Chemistry, Holy Cross College (Autonomous), Trichy.	National	2010	Paper Presented
7.	Inhibitive action of hydroquinone- $Zn^{2+}$ in controlling	Electrochemical society of India, Indian Institute	National	2010	Paper Presented

	the corrosion of carbon steel in well water - National Symposium on Electrochemical Science and Technology (NSEST 2010)	of Science, Bangalore			
8.	An overview of futuristic climatic pattern in India - National Conference on climate change and future security	Loyala Institute of Frontier Energy (LIFE), Loyala College (Autonomous), Chennai	National	2010	Paper Presented
9.	Synergistic Effect of Aminophenol-Mn <sup>2+</sup> System in controlling the Corrosion of Carbon Steel in Ground Water - National Seminar on Recent Trends	A.V.C. College, Mayiladuthurai	National	2011	Paper Presented

	in Chemistry (NSRTC-11) UGC sponsored				
<b>10.</b>	O-cresol as corrosion inhibitor for carbon steel - National Symposium on Recent Advances in Chemistry (NSRAC – 11)	Dhanalakshmi Srinivasan college of arts and science for women, Perambalur, Tamilnadu	National	2011	Paper Presented
<b>11.</b>	Inhibitive action of 4- Aminobenzoi acid in controlling the corrosion of carbon steel in ground water - State Level Seminar on New Vistas in Chemistry (UGC sponsored)	Jamal Mohamed College	National	2012	Paper Presented
<b>12.</b>	Synergistic effect of sodium	AVVM College	State Level	2012	Paper

	benzoate-Zn <sup>2+</sup> system in controlling the corrosion of carbon steel in ground water – State level Seminar on Current Research in Chemistry and Biochemistry	Pondi.			Presented (Best Paper Award)
13.	Synergistic effect of aminophenol-Mn <sup>2+</sup> system in controlling the corrosion of carbon steel in ground water – National Symposium on Electrochemical Science and Technology (NSEST 2012)	Electrochemical society of India, Indian Institute of Science, Bangalore	National	2012	Paper Presented
14.	Mannitol as the Corrosion inhibitor for	Dhanalakshmi Srinivasan college of arts	National	2013	Paper Presented

	carbon steel in ground water – National Conference on New Horizon in Chemistry (NCNHC 2013)	and science for women, Perambalur, Tamilnadu			
15.	Corrosion Inhibitor and Characterization of yellow chrysanthemum flower extract in controlling the corrosion of carbon steel buried in the black soil - National Conference on Evolutionary trends in biological and pharmaceutical chemistry	Research Department of Chemistry, Holy Cross College, Trichy in collaboration with Department of Animal Science, Bharathidasan University, Tiruchy	National	2014	Paper Presented
16.	Synthesis, Characterization	Research Department of	National	2014	Paper



	and Antimicrobial study of metal complexes of schiffbase derived from Heteroaldehyde - National Conference on Evolutionary trends in biological and pharmaceutical chemistry	Chemistry, Holy Cross College, Trichy in collaboration with Department of Animal Science, Bharathidasan University, Tiruchy.			Presented
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### Workshop

S. No.	Theme	Place	International / National / State level	Year
1.	National workshop on Green	Holy Cross College, Trichy.	National	2013

	Techniques in Chemistry Laboratory Equipments (GTCLE - 2013)			
<b>2.</b>	Workshop on Scanning Electron Microscopy and X-ray Diffraction	Care School of Engineering, Tiruchy	State level	2013
<b>3.</b>	Exclusive workshop for Research supervisors on Quality Research Report Writing	Bharathidasan University, Tiruchy.	State level	2014
<b>4.</b>	National Seminar on Modern Trends in Chemistry	Bharathidasan Institute of Technology, Anna University,	National	2013

	(MTC – 2013)	Tiruchy		
5.	Training Programme for Science Graduate Teachers on Samacheer Kalvi	Holy Cross College, Trichy.		2011

### Projects Undertaken:

S. No.	Category Major/ Minor	Research Area	Funding Agency	Sanctioned Amount (Rs.)	Period
1.	TNSCST	Schiff base & its metal complexes	TNSCST	10,000	2012 - 2013
2.					

**Details of membership in professional bodies /journals, editors, consultancy, resource person**

1. .
2. .
3. .
4. .
5. .
6. .
7. .
8. .
9. .
10. .

**Visit to Foreign Countries:**

**Other Honors /Awards/Achievements/ Responsibilities:**

- 1.
- 2.

**Residential Address:**

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2, RAMAMADAM KANDI STREET

BHEEMANAGAR

TIRUCHIRAPALLI

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