

**Name** : V.R. Nazeera Banu  
**Designation** : Assistant Professor  
**Department** : Chemistry  
**Contact Number** : 6383524771  
**Email ID** : nazeerabanu@americancollege.edu.in



**Educational Qualification:**

Degree	Subject	Institution	Year of passing
Ph.D.	Chemistry	Anna University, Chennai	2017
M.Phil	Chemistry	Madurai Kamaraj University, Madurai	2010
M.Sc.	Chemistry	Lady Doak college, Madurai	2006
B.Sc.	Chemistry	Lady Doak college, Madurai	2004

**Specialization in Teaching:**

1. Inorganic Chemistry
2. Organic Chemistry
3. Physical Chemistry
4. Biochemistry
5. General Chemistry

**Specialization in Research:**

1. Corrosion
2. Electro Chemistry
3. Physical Chemistry

**Work Experience**

Designation	Institution / Company	Year-From(month/year) To (month/year)
Assistant Professor	Department of Chemistry, The American College, Madurai	June 2018 to till date
Assistant Professor	Department of Chemistry, R.V.S College of Engineering, Dindigul	September 2011 to June 2018
Lecturer	Department of Chemistry, R.V.S Polytechnic College, Dindigul	July 2008 to August 2011
Lecturer	CSI Arts and Science College for Women, Madurai	August 2006 to November 2007

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**Membership in Professional Bodies:**

Life member & Fellow in Indian Chemical Society

**Department Activities**

✓ **Vice-President** : June 2019

Chemistry Association,

Department of Chemistry,

The American College, Madurai.

**Research Interest**

Corrosion Science

Material Chemistry

Electrochemistry

Computational Chemistry

Organic Synthesis

**Instrumental Skills**

FT-IR spectrometer

Electrochemical Workstation (CHI model 650B, 660 A, 1200, 1110)

Microwave Oven

Scanning Electron Microscope (SEM)

Energy Dispersive X-Ray Analyzer (EDAX)

UV-Visible spectrophotometer

Column Chromatography

Atomic Force Microscopy (AFM)

**Computational Skills**

Operating Systems: Windows 2007/8

Office Applications: Microsoft PowerPoint, Excel, Word

Technical Drawing: Chem Draw, Photoshop, Photoscape

Scientific Applications: Origin 8.5.1, EC-Lab

## List of Publications

1. Wilson Sahayaraj A, **Nazeera Banu V.R**, Saranya R, John Amalraj A, SusaiRajendran, Robert Kennedy &Shanthy T, 2012, “Corrosion inhibition by self-assembling molecules”, International Journal of Advances in Engineering, Vol.2, 102-110 ISSN: 2249-913X.
2. Rajendran S, Sribharathy V, Krishnaveni A, Sathiyabama J, Robert Kennedy, **Nazeera Banu V.R**, &Brintha G, 2012, “Corrosion inhibitive property of self-assembled nano films formed by adipic acid molecules on carbon steel surface”, Elixir Thin Film Technology, Vol.50, 10509-10513, ISSN: 2229-712X.
3. **Nazeera Banu V.R**&Rajendran S, 2015, “Corrosion inhibition of carbon steel by Triton X 100 self-assembling monolayers”, Journal of Chemical and Pharmaceutical Research, 7 (10S), 146-152, ISSN: 0975-7384.
4. **Nazeera Banu V.R**, Rajendran S & Senthil Kumaran S, 2016, “Investigation of the inhibitive effect of Tween 20 self-assembling nanofilms on corrosion of carbon steel”, Journal of alloys and compounds, 675, 139-148.
5. **Nazeera Banu V.R**, Rajendran S & Syed Abuthahir S.S, 2017, “Corrosion Inhibition by Self-assembling Nano films of Tween 60 on Mild steel surface”, International Journal of Chemical Concepts, 3 (1), 161-173.
6. **Nazeera Banu V.R**, Ramesh Babu V & Rajendran S, 2017, “Investigating the Corrosion Inhibition Efficiency of surgical carbon steel instruments used in medical field”, International Research Journal of Pharmacy, 8 (12), 79 - 90.
7. **Nazeera Banu V.R**, **Ramesh Babu V**, **Kayalvizhi C** & **Saravanan K**, 2019, “Cyclic Voltammetric and AFM Study of Corrosion Inhibition and adsorption behavior of Sodium Dodecyl Sulphate-Zn<sup>2+</sup> on carbon steel in aqueous medium”, 12 (3), 1-8.

## Book Chapter

1. **V. R. Nazeera Banu** , Susai Rajendran , T. Umasankareswari, “ **Hydrophobicity and Corrosion Inhibition Corrosion Inhibition of Carbon Steel by Surfactants**”, 2017, LAP Lambert Academic Publishing, ISBN10 3330053402, ISBN13 9783330053403.
2. A.Christy Catherine Mary, J.Jeyasundari, **V.R.Nazeera Banu**, R.Dorothy, Susai Rajendran, S.Senthil Kumaran, A.Peter Pascal Regis, “**Chapter 16: Corrosion behavior of orthodontic wires in artificial saliva with presence of beverage**”, 2020, Nanotechnology in the Beverage Industry, Fundamentals and Applications, Micro and Nano Technologies, 16, 471-504, ISBN978-0-12-819941-1, <https://doi.org/10.1016/C2019-0-00461-X>

## Paper presented in conferences

1. **V.R.Nazeera Banu** presented a paper on “Corrosion inhibitive property of self-assembled nano films formed by adipic acid molecules on carbon steel surface” at the National conference on Recent Advancement in Nanoscale Research (NCRNR 2012) August 24-25, 2012.
2. **V.R.NazeeraBanu** presented a paper on “Corrosion inhibition of carbon steel surface by CTAB” at the TEQIP II Sponsored International conference on Chemistry and Materials (ICCM’14) November 14-15, 2014.
3. **V.R.Nazeera Banu** presented a paper on “Corrosion inhibition by self-assembling nano films of Cetyl trimethyl ammonium bromide (CTAB) on mild steel surface” at the International conference on Recent Advances in Nano Science and Technology (RAINSAT 2015) July 8-10, 2015.
4. **V.R.Nazeera Banu** presented a paper on “Corrosion inhibition of self-assembling nano films of Tween 60 on mild steel surface” at the International conference on Nanomaterials for Frontier Applications (ICNFA 2015) December 2-4, 2015.
5. **V.R.Nazeera Banu** presented a paper on “Corrosion inhibition of self-assembling nano films of Triton X 100 on mild steel surface” at the International conference on Nanomaterials for Frontier Applications (ICNFA 2015) December 2-4, 2015.
6. **V.R.Nazeera Banu** presented a paper on “Corrosion inhibition of carbon steel surface by an Anionic Surfactant” at the International conference on Chemical and environmental Research (ICCER 2015) December 17, 2015.

7. **V.R.Nazeera Banu** presented a paper on “Corrosion inhibition of mild steel by SDS-Zn<sup>2+</sup> system” at the International conference on Advances in Engineering Science and Technology (ICAEST’16) March 3-4, 2016.

8. **V.R.Nazeera Banu** presented a paper on “Corrosion Inhibition Efficiency and Medicinal Application of Mild Steel” at the International Seminar on “Inter disciplinary science studies, September 3, 2018

9. **V.R.Nazeera Banu** presented a paper on “Investigating Corrosion Inhibition Efficiency of Surgical Carbon Steel Instruments by CTAB” at the National conference on Recent Trends in Chemistry February 11-12, 2019.

#### **Faculty Development Program:**

1. V.R.Nazeera Banu attended, Faculty Development Program on “Instrumental Methods of Analysis” at CSIR-Central Electrochemical Research Institute and URCW, Karaikudi, November 11-15, 2019.

#### **Webinars Attended:**

<b>QUIZ</b>	COVID-19	10.5.20	Arogyasedhu, Govt. of INDIA
	Comprehensive Chemistry	10.5.20	St.Xavier’s College, Palayamkottai
	“Covid 19”- Awareness Quiz	10.5.20	The American College, Madurai
	Chemistry in Daily life	11.5.20	The Standard Fireworks Rajaratnam College for women, Sivakasi
	Fundamendals of Nanoscience	17.5.20	Thiru Kolanjiappar Govt. Arts College, Viruthachalam
	Green Chemistry	23.5.20	Holy Cross College, Nagercoil
<b>NATIONAL CONFERENCE / WEBINAR</b>	“Applications of Quantum Mechanics”	3.5.20	Shri Pancham Khemraj Mahavidyalaya, Sawantwadi
	Live Chemistry Webinar	11.5.20	Pioneer Kumaraswamy College, Nagercoil
	American College Webinar series II	22.5.20	The American College, Madurai
	Regional Haemato Pathology	14.05.21	International Association of Pathology
	Surgical Techniques in Women Cancer	25.04.21	International Association of Oncology
	Breakthroughs in Early Lung Cancer Detection and Treatment	27.06.21	International Association of Oncology

	Genetics in Prostrate Cancer	28.09.21	International Association of Oncology
	International World Cancer Day	04.02.22	International Association of Oncology
<b>POSTER PRESENTATION</b>	Corrosion inhibition of NiTi wire in artificial saliva	24,25 & 26.09.21	Indo Oncology Summit
<b>Paper Presented</b>	Functional Materials and applications	14.10.22	Muslim Arts College, Kanyakumari
<b>ONLINE COURSE</b>	“Elemental Arts: Evolution of Modern Periodic Table”	1.5.20 & 2.5.20	Sri Krishna College of Engineering and Technology, Coimbatore.
	“Basic Principles of Spectroscopy”	17.4.20 to 19.4.20	AVS College of Arts and Science, Salem
	Comprehensive Chemistry	10.5.20	St.Xavier’s College, Palayamkottai
	We and our Environment	13.5.20	SLS.MAVMM ARIYA VAISYAR COLLEGE, MADURAI
<b>WORKSHOP</b>	Free MOOC to Complement Engineering Education	13.5.20	IEEE Bangalore section
	Functional Materials for sensor and energy applications	10 <sup>th</sup> & 11 <sup>th</sup> 22	Alagappa University, Karaikudi
<b>FDP</b>	Migration of IT Infra Using Cloud	20,21.5.20	PIET, Jaipur
	7-Days online Faculty Development Program on Computational Chemistry of Materials,	26.09.22	NewDelhi
	Astronomical Studies	07.02.22 & 08.02.22	Bharathidasan University, Trichy
	Intellectual Property Rights	09.02.22	Bharathidasan University, Trichy
	The Nuances of Scientific Writing and Publishing	11 <sup>th</sup> July to 19 <sup>th</sup> July 2022	Madras Christian College, Chennai
	Computational chemistry of materials	5 <sup>th</sup> -11 <sup>th</sup> October 2022	NewDelhi

<b>National Seminar</b>	Metallic Materials-Characterization, Testing and Manufacturing Techniques	12.02.22	AMET University, Chennai
Workshop Co-Converor	Workshop on Skill development in Analytical	2 and 3 Feb 23	The American College
International level	ICAC-2023 Synthesis and Characterisation of Amide complexes using greener techniques and to study the biological activities of metal complexes	4th and 5 <sup>th</sup> decembe r2023	The American College
	Indo-South Korea-Thailand 2 <sup>nd</sup> International e-Conference on Nanoscience and Nanotechnology for energy, environment and biomedical application	24 & 24.11.23	Vinayaka Missions Kirupananda Variyar Arts and Science College
National level	Green Chemistry	23 <sup>rd</sup> & 24th January 2024	The American College

**Personal details:**

**Name** : V.R.Nazeera Banu  
**Husband's Name** : P.John Prabhakar  
**Date of Birth** : 10.06.1983  
**Language Known** : Tamil, English