

RESUME

Name : **Ebenezer. R**
Designation : **Assistant Professor**
Department : **Chemistry**
Date of Joining : **24.07.2013**
Email : jems.ebenezer@gmail.com
ebenezer@americancollege.edu.in



Educational Qualification:

Degree	Subject	College / University & Place	Year Completed
B.Sc	Chemistry	The American College	2007
M.Sc	Chemistry	The American College	2009
NET	Chemical Sciences	UGC-CSIR	2008
Ph.D	Chemistry	Madurai Kamaraj University	2015
SET	MTU	Chemistry	2017

Specialisation in Teaching : **Physical Chemistry, Inorganic Chemistry**

Specialization in Research : **Bio-Inorganic & Organometallic Chemistry**

Research Interests : **Computational Chemistry**

Project works:

S.No	Title of the Project	Funding Agency	Period	Position
1	Synthesis and studies on phosphazene based ligands and other biological active metal complexes	-	2009-2013	Ph.D
2	Organometallic and Transition metal Complexes for tunable NLO properties in photonic applications	DRDO	17.05.2010-31.03.2012	Project Assistant
3.	Comparative Studies on Application of Silatranes	-	Apr-2009	II M.Sc

Research Publications:

1. Synergistic photocatalytic performance through Z-Scheme charge transfer in organic dye degradation using α -MnO₂ nanorods and Co₃O₄ nanoparticles combined with eggshell derived hydroxyapatite
G Palanisamy, K Bhuvaneshwari, J Lee, M Shkir, R Ebenezer
Colloids and Surfaces A: Physicochemical and Engineering Aspects 677, 132300, 2023
2. Indian Journal of Advances in Chemical Science
M Kalaimathi, YY Thangam, R Ebenezer, R Anitha
Indian Journal of Advances in Chemical Science 9 (3), 158-161, 2021

3. Synthesis and Characterization of Schiffbase Metal (II) Complexes Derived from Benzoylacetone and p-anisidine
Y. Yesu Thangam, R. Ebenezer, M. Kalaimathi, G. Saraswathi
Journal of universal Pharmacy and biosciences 6 (5), 83-95, 2017
4. Synthesis, Characterization and Studies on Metal (II) Complexes of 4-(((1H-Tetrazol-5-YL)Imino)Methyl)-2-Methoxy-6-Nitrophenol
Kalaimathi M, Yesu Thangam Y, Ebenezer R, Southamani K, Anitha R
Journal of Chemistry and Chemical Sciences 6 (11), 1099-1111, 2016
5. Synthesis, Characterization and Studies on Metal (II) Complexes of 4-(((1h-1, 2, 4-Triazol-3-Yl) Imino)Methyl)-2-Methoxy-6-Nitrophenol
Kalaimathi M, Yesu Thangam Y, Ebenezer R, Southamani K, Anitha R
International Journal for Pharmaceutical Research Scholars 5 (4), 48-68, 2016
6. Synthesis, characterization and studies on metal (II) complexes of 2-methoxy-6-nitro-4-((thiazol-2-ylimino) methyl) phenol
K Southamani, R Ebenezer, R Anitha, M Kalaimathi, Y Yesu Thangam
International Journal of Chemical and Pharmaceutical Sciences 7 (4), 1-9, 2016
7. Synthesis, structural, thermal and photo-physical properties of triazine based NLO material
MS Devi, P Tharmaraj, CD Sheela, R Ebenezer
Journal of fluorescence 23, 399-406, 2013
8. Synthesis, spectral characterization and biological activity of vanillin substituted silane Schiff base and their metal (II) complexes.
R Ebenezer, CD Sheela, P Tharmaraj, D Kodimunthiri
International Journal of Emerging Trends in Pharmaceutical Sciences 1 (2), 5-11, 2013
9. Synthesis, spectral, NLO studies, and antimicrobial activities of curcumin diketimine metal complexes
S Sumathi, P Tharmaraj, CD Sheela, R Ebenezer
Journal of Coordination Chemistry 65 (3), 506-515, 2012
10. Synthesis, characterization, NLO study, and antimicrobial activities of metal complexes derived from 3-(3-(2-hydroxyphenyl)-3-oxoprop-1-enyl)-4H-chromen-4-one and sulfanilamide
S Sumathi, P Tharmaraj, CD Sheela, R Ebenezer, P Saravana Bhava
Journal of Coordination Chemistry 64 (10), 1673-1682, 2011
11. Synthesis, spectral, bioactivity, and NLO properties of chalcone metal complexes
S Sumathi, P Tharmaraj, CD Sheela, R Ebenezer
Journal of Coordination Chemistry 64 (10), 1707-1717, 2011

Conference / Seminar Presentations:

Sl.No	Place	Date	Title
1.	The American College, Madurai	17 th to 19 th July 2018	<i>International Conference on Frontier Areas in Chemistry (ICFAC 2018)</i> Synthesis, spectral characterisation of transition metal Fe(II), Co(II), Ni(II), Cu(II), Zn(II) complexes of schiff base derived from 3-hydroxy-2-methyl-4-pyrone and 2-methyl-4-nitroaniline
2.	JA College, Periyakulam	11 th & 12 th Jan 2017	<i>National seminar on Recent Trends in Chemistry-VII</i> , (synthesis, studies and metal(II) complexes of 5(4-hydroxy-3-methoxy-5-nitrobenzylidene)amino)-1,3,4-thiadiazol-2-ol)
3.	Jamal Mohamed College, Trichy	17 th Dec 2015	<i>International Conference on Chemical and Environmental Research (ICCER 2015)</i> Synthesis and spectral characterization of large s-triazine based ligand and its Transition metal(II) complexes

4.	St. Xavier's college, Palayamkottai	16 th Dec 2015	<i>International conference On "recent advances in materials Research and its applications" Icratria-15</i> (Synthesis and characterization on bis(hydrazino)-s-triazine based ligand & its metal(II) complexes)
5.	St. Xavier's college, Palayamkottai	16 th Dec 2015	<i>International conference On "recent advances in materials Research and its applications" Icratria-15</i> (Synthesis, characterization and studies on 2-aminopyrimidine based Ligand and its metal (II) complexes)
6.	JA College, Periyakulam	8 th & 9 th Jan 2015	<i>National conference on Recent Trends in Chemistry-VI</i> , (synthesis, studies and characterization of metal nanoparticles with silane as capping agent)
7.	Bishop Heber College, Trichy	10 th Jan 2014	<i>International conference on Chemistry in Synergy with materials and biology</i> , (Biological activity of phosphazene based Materials)
8.	Periyar University, Salem	20 th -22 nd Feb2013	<i>International conference on biological inorganic chemistry-2013</i> (Synthesis, characterization and studies of hydroxyl and amino substituted cyclotriphosphazene and its metal(II) complexes)
9.	ICT, Mumbai	29 th -31 st oct 2012	<i>International Conference on Indo-German Symposium-2012</i> (Green synthesis and characterization of metal nano-particles from sulphur containing ligands for catalytic, optical and anti-tumor studies)
10.	CPA College, Bodi	4 th -5 th Oct 2012	<i>National seminar on Emerging trends in chemistry-4</i> (Synthesis, Characterization And Potential Applications Of Phosphazene Based Metal Complexes)
11.	Nano Commission India, Hyderabad	20 th -23 rd Jan 2012	<i>International Conference on Nanoscience and technology</i>
12.	IIT Guwahati	8 th -10 th Dec 2011	<i>International Conference on Advanced Nanomaterials and nanotechnology</i> (Synthesis and Characterization of metal nanoparticles using thiol containing ligands for various potential applications)
13.	Thiagarajar College, Madurai-9	7 th Oct 2011	<i>College Seminar on Research Problem and objectives</i>
14.	IIT Madras	11 th -13 th Feb 2011	<i>Chennai Chemistry Conference-2011</i> (Synthesis, Spectroscopic Characterization, Biological Screening, Corrosion Inhibition and DNA Activity of Transition Metal Complexes Derived From diketone and 4-aminoantipyrine)
15.	Sri Paramakalyani College, Alwarkurichi	21 & 22 Dec 2010	<i>National seminar on Emerging Trends in NanoScience</i> (Single pot synthesis of Silver nano particles using silver diethyldithiocarbamate complexes)
16.	Bharathidar University, Coimbatore - 46	19 th &20 th Mar 2009	<i>International Conference on Coordination & Organometallic Chemistry</i>
17.	Thiagarajar College, Madurai-9	13 th Sep 2006	<i>Intercollegiate Students seminar on Antioxidants</i> (on Synthesis, Characterization and Antimicrobial Studies of Schiff Base Having a silane group and their Transition Metal Complexes)

FDP/Training/Workshop Attended:

Sl.No	Place	Date	Title
1.	CSI college of Engineering, Ketti	28 th to 30 th Sep 2023	<i>Faculty Development Programme on the nuances of scientific writing and publishing</i>
2.	The American College, Madurai-2	6 th March 2023	Art and Science of Methodical Scientific writing & publishing in a High impact journal
3.	Sri Meenakshi Government arts college for women, Madurai	5 th & 6 th May 2022	In-Service teacher training programme in Physical chemistry by TANSCHÉ
4.	St.Christopher's College of Education, Chennai	08- 13 th June 2020	<i>Online Faculty Development Programme-Digital Classroom Techniques</i>
5.	St.Christopher's College of Education, Chennai	17 th -21 th Oct 2016	<i>Capacity building program for young faculty</i>
6.	IIT Bombay	26 th -29 th Mar 2012	CEP Course on <i>Advanced Analytical Techniques</i> (Synthesis and Characterization of metal nanoparticles for various potential applications using sulphur containing ligands)
7.	Thiagarajar College, Madurai-9	12 th Jan 2012	Workshop on <i>Research Philosophies and methods</i>
8.	Thiagarajar College, Madurai-9	9 th -10 th Jan 2012	Hands on Training on <i>Chromatography</i>
9.	Alagappa University, Karaikudi	11 th to 13 th Oct 2010	National Workshop on <i>Electroanalytical Techniques</i>

Seminars attended/ Participated:

Sl.No	Place	Date	Title
1.	The American College, Madurai-2	3 rd March 2023	Recent Trends in Chemistry-2023
2.	The American College, Madurai-2	12 th March 2020	Recent Trends in Chemistry-2020
3.	The American College, Madurai-2	6 th March 2020	National Conference on quality enhancement and sustenance in higher education
4.	The American College, Madurai-2	5 th July 2019	International conference on Frontier Areas in Chemistry-2019
5.	The American College, Madurai-2	20 th Feb 2019	One day seminar on current trends in Chemistry-2019
6.	The American College, Madurai-2	19 th July 2018	International conference on Frontier Areas in Chemistry-2018
7.	The American College, Madurai-2	7 th to 11 th Oct 2016	AIACHE Golden Jubilee Grand Finale celebrations
8.	The American College, Madurai-2	27 th & 28 th Jan 2014	National Symposium on frontier areas in Chemistry
9.	Fatima College, Madurai-9	15 th Jan 2011	National seminar on <i>Green Chemistry</i>
10.	IITR, Lucknow	1 st -3 rd Feb	International Symposium & Workshop on <i>The safe</i>

		2011	<i>use of nanomaterials & Nanomaterial safety</i>
11.	VIT University, Vellore - 14	25 th &26 th Aug 2010	International Symposium on <i>Nanotechnology-Present and Future trends</i>
12.	The American College, Madurai-2	10 th &11 th Jan 2008	National Symposium on <i>Frontier Areas in Chemistry</i>
13.	Vivekananda College	13 th & 14 th sep 2007	Two day lecture on <i>NMR Spectroscopy and mass spectrometry</i>
14.	Bharathidasan University, Tiruchirappalli - 24	20 th – 21 st Feb 2006	National Seminar on <i>Current Developments in bio-diesel technology and its future prospects</i>
15.	The American College, Madurai-2	5 th – 24 th Jan 2006	Winter Term Program (collaboration Oberline College, USA) –India on <i>Environmental Concerns and conflicts</i>

Webinars attended/ Participated:

Sl.No	Place	Date	Title
1.	Nazareth Margoschis College, Nazareth	27 th Oct 2021	Chemical Approach to Nanomaterials
2.	Jamal Mohamed College, Trichy	27 th July 2021	Emerging materials for solar hydrogen production
3.	Department of Chemistry, The American College, Madurai	14 th Aug 2021	International Webinar-IV, 2021 on “How electrochemistry and vibrational spectroscopy work in industry” and “Rechargeable Li-ion batteries (LIBs) and beyond: Chemist’s role towards technology development
4.	American College Central Instrumentation Centre, The American College, Madurai	30,31 July & 2 nd Aug 2021	Workshop on X-ray diffraction
5.	Tranquebar Bishop Manickam Lutheran College, PORAYAR	26 th June 2021	Recent advances in emerging 3d nanomaterials for real-world energy Technologies
6.	Karpagam Academy of higher Education, Coimbatore	25 th June 2021	International webinar on Environmental Importance of Palmyraculture
7.	Sree Saraswathi Thyagaraja College, Coimbatore	16 th – 22 nd June 2021	Recent Developments in Materials Science - 21
8.	Sadakathullah Appa College, Tirunelveli	15 th June 2021	Synthesis and Catalytic Applications of Supported Metal Nanoparticles
9.	Department of Chemistry, The American College, Madurai	14 th June 2021	Solving Challenging Problems in Chemistry Using Computational Chemistry and Machine Learning
10.	Sadakathullah Appa College, Tirunelveli	10 th June 2021	Electrochemical Biosensors - Recent Trends, Challenges and Opportunities for Multidisciplinary Research Approach

11.	Department of Physics, The American College, Madurai	19 th June 2020	Recent trends in advanced material science-2020
12.	American College Central Instrumentation Centre, The American College, Madurai	9 th July 2020	Analytical Techniques
13.	American College Central Instrumentation Centre, The American College, Madurai	8 th July 2020	Spectroscopic Techniques - II
14.	Latha Mathavan Arts & Science College, Madurai	30 th June 2020	Principles and fabrication of electrodes for electrochemical sensor applications
15.	Sri Meenakshi government arts College, Madurai	26 th June 2020	Sustainable low cost carbon nanomaterials:Synthesis and Applications
16.	American College Central Instrumentation Centre, The American College, Madurai	24 th June 2020	Electroanalytical Techniques
17.	Bharathi Women's college	24 th June 2020	Modern approach to chemistry and hands-on training on solving spectroscopic problems
18.	Loyola Academy, Secunderabad	27 th - 28 th May 2020	Techno Science – 2020
19.	Department of Chemistry, The American College, Madurai	29 th May 2020	International Webinar on Chemistry
20.	Department of Chemistry, The American College, Madurai	22 nd May 2020	American College Chemistry Webinar Series-II
21.	Department of Food Science & Nutrition, The American College, Madurai	21 st May 2020	Immune Boosting Diet for Covid-19
22.	Department of Chemistry, The American College, Madurai	15 th & 16 th May 2020	American College Chemistry Webinar Series-I

Other Activities / Academic Credentials:

Sl.No	Place	Date	Role	Event
1.	The American College	2 nd & 3 rd Feb 2023	One of the resource person	two day in-house workshop on skill development in analytical techniques
2.	VVV college for women, virudhunagar	20 th and 27 th Jan 2023	Resource person	Hacks to crack JAM examination in Physical Chemistry by DBT STAR college
3.	The American College	20 th May to 3 rd June 2022	One of the Organizing committee member	Young students Scientist program by TNSCST

4.	The American College	23 rd June 2021	Convener	National level webinar-II
5.	The American College	05 th June 2020	Talk	Significance of equilibrium in systems in American College Chemistry Webinar Series-III
6.	The American College	9 th July 2020	One of the Convener	online quiz ACCHEM e Quiz
7.	The American College	28 th August 2020	One of the organizer	National Webinar On Methods Of Assessing Research, Innovations & Extension in NAAC Accreditation
8.	The American College	15 th and 19 th January 2020	One of the organizing committee member	INSPIRE program

Project students guided:

Year	UG	PG
2015- 2016	-	1
2017-2018	-	1
2018-2019	7	1
2019-2020	9	1
2020-2021	4	2
2021-2022	5	2
2022-2023	4	4

Administrative /Academic Position/s (held / currently holding):

Positions held / currently holding	Year - From (month/year) To month/year)
Superintendent	24.07.2013 – 23.12.2016
SCM staff in-charge(Chemistry Department)	20.12.2014 – till date
Department Autonomy coordinator (UG SF)	July 2016-2018
UG Chemistry department library incharge	2014-2017
Criterion-III member in NAAC cycle-2	2013-2015
Criterion-III member in NAAC cycle-3	2016- 2022
Criterion-III member in NAAC cycle-4	2022-till date
UG Chemistry department library incharge	2020- till date
Green Club	2015-till date
Internal Subject expert- Department of food processing and preservation, Community college	2018-2019
Incharge for students field visit- Kodaikanal research station & Ramanad power plant	2019-2020
Member-UGC committee	2019-2021
President :UG Chemistry Association	2020-2022

Have served in various committees in college, department and hostel.