



*KHADIR MOHIDEEN
COLLEGE
(M.K.N. MADHARASA
TRUST WAQF)
ADIRAMPATTINAM*



STAFF PROFILE

- Name : Dr.A.AFROOS BANU
- Gender :Female
- Date of Birth :20.05.1978
- Designation :Assistant Professor
- Date of Joining in Teaching Profession :1.06.2004
- Date of joining in our Institution 1.03.2010
- Address
Residential Official
1, A, Broker Street Department of Chemistry
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<https://scholar.google.com/citations?user=Og-KQ2wAAAAJ&hl=en>

9. Educational Qualifications (from UG level)

S.No.	Examination Passed	College	University
1	B.Sc Chemistry	Khadir Mohideen College Adriampattinam 614701	Bharathidasan University, Trichy
2	M.Sc Chemistry	Khadir Mohideen College Adriampattinam 614701	Bharathidasan University, Trichy
3	M.Phil	Khadir Mohideen College Adriampattinam 614701	Bharathidasan University, Trichy
4	B.Ed	PRIST University Thanjavur	PRIST University Thanjavur

5	Ph.D	Khadir Mohideen College Adriampattinam 614701	Bharathidasan University, Trichy
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10 Teaching experience as on 31-05-2021

U.G:12
P.G:12
M.Phil.:06
Ph.D.: -

11 Research Area of Specialization: 1. Electro chemistry 2.Kinetics of reaction Mechanism

12 Teaching Area of Specialization: 1.Organic Chemistry 2. GENneral Chemistr Chemistry,Industrial Chemistry, AnalyticalChemistry and Polymer Chemistry

13 Languages known : Tamil & English

14 Computer Proficiency:

15 Research Supervision

Ph.D.: Awarded- Submitted Pursuing

Details of Ph.D. awarded scholars:

S.No.	Name of the Scholar	Title of the Thesis	University/College	Date of Viva
Nil				

Details of Ph.D. thesis submitted scholars:

S.No.	Name of the Scholar	Title of the Thesis	University/College	Date of submission
Nil				

Details of ongoing Ph.D. Scholars:

S.No.	Name of the Scholar	Title of the Thesis	University/College	Date of Registration
Nil				

M.Phil Degree (Year wise from date of joining)

Awarded : ...07..

Pursuing : ...nil....

16. RESEARCH PAPER PUBLICATIONS (NATIONAL/INTERNATIONAL)

S.No.	Title of the Paper & Authors	Journal Name	Vol& Number	Month & Year	Citation index	Impact Factor
1.	Kinetics and Mechanism of oxidation of 4-Oxoacids by N-	<i>Journal of Solution Chemistry,</i>	42(1), 239-250	Jan /2013		1.342

	bromosaccharin. <i>Journal of Solution Chemistry</i>					
2	Kinetics of Oxidation of 3-Benzoylpropionic Acid by N-bromobenzamide in Aqueous Acetic Acid Medium.	<i>Chem. Sci. Trans.</i> ,	4(2) , 638	2015		0.875
3	Polymerization of Acrylonitrile Initiated by Cerium (IV)/p-Aminoacetophenone Redox System – A Kinetic Study.	<i>Chem. Sci. Trans.</i> ,	5(4) , 1114	2016		0.875
4	<i>Synthesis and Characterization of CeO₂-ZrO₂ Nanocomposites</i>	<i>Journal of Nanoscience, Nanoengineering & Applications</i>	(8)3			
5	Performance of Solar cell fabricated using TiO₂: rGO on glass and Si substrates prepared by Thermal Evaporation Technique	International Journal of Bio-Pharma Research	8(3)	2019		
6	Bio Synthesis of Zn Doped AgTe with the Help of Allium sativum Peel Powder for Bacterial Results.	European Journal of Medicinal Plants	30(4)	Jan/2020		
7	Solar Energy Materials Synthesis and Characterization	Refrigeration, Air Conditioning, Heating and Ventilation	6(3)	2019		
8	Preparation and Characterization of Aluminium doped Zinc Oxide thin films by Spin Coating.,	Malaya Journal of Matematik	5(2)	Dec2020		
9	Anticancer Activity of Silver Nanoparticle by Using Cassia auriculata Extract.	European Journal of Medicinal Plants		2020		

10	. Novel synthesis of cerium oxide nano photocatalyst by a hydrothermal method. ,	Journal of Semiconductors	42(12)	2021		
11	Synthesis of Silver Nanoparticle by using Cassia auriculata Leaf Powder and its Antibacterial Studies			2022		
12	Thermoelectric Power of Silver Telluride Thin Films and its Thermal Conductivity Applications	<i>Asian Journal of Chemistry</i>	33(11)	October 2021;		

17. RESEARCH PAPER PUBLICATIONS (NATIONAL/INTERNATIONAL CONFERENCE PROCEEDINGS)

S.No.	Title of the Paper & Authors	Name of conference	Vol& Number	Month & Year	ISBN Number
	Adsorption of Cr (VI) ions from aqueous solution Studies	DST – SERB sponsored International Conference on Recent trends ingreen chemistry and material science (RTGCMS-2020)		Jan 2020	
	Inhibition of stainless steel corrosion by Polyaniline (PANi) in the	international conference on “Recent trends in engineering , science and technology		Mar 2019	

18. Resource Person in State Level / Symposium/ National / International Conferences

19. Papers Presented in State Level / Symposium/ National / International Conferences

i) Paper presented titled Hydrothermal synthesis and its characterization of CeO₂ doped with ZrO₂ NPS in the “**International conference** on advancement in Engineering, Science and Technology”, held on 31st March 2018

i) Paper presented titled Inhibition of stainless steel corrosion by Polyaniline (PANi) in the **international conference** on “Recent trends in engineering, science and technology” held on 2nd March 2019.

iii) Presented a research entitled Adsorption of Cr (VI) ions from aqueous solution Studies in the DST – SERB sponsored **International Conference** on Recent trends in green chemistry and material science (RTGCMS-2020) conducted by department of applied science and humanities, Mohamed Sathak Engineering college, Kilakarai on 23,24th January 2020.

20. Seminars / Conferences / Workshops Organized

21. Seminars / Conferences / Workshops Attended

1. **Training programme** on Electrochemical Methods for Evaluation of Nano materials organized by the Department of Chemistry, National Institute of Technology, Tiruchirappalli from 20th Nov. 2014 to 21st Nov. 2014.
2. Kinetics and Mechanism of oxidation of 4-oxo-4-phenyl butanoic Acid by N-Bromoanisamide in Aqueous Acetic Acid Medium, **ICSMR Seminar** organized by P & G Research Department of Chemistry, Khadir Mohideen College on September 25, 2016.
3. The Art of Scientific writing organized by the Internal Quality Assurance Cell (IQAC), Dharmapuram Gnanmbigal Govt. Arts College (W), Mayiladuthurai on 31st January 2015.
4. Second **National Conference** on Advanced Functional Materials and Application, Department of Chemistry, Kalasalingam University, Krishnan Kovil, on 22nd – 23rd March 2013.
5. Characterization Techniques in Chemical Sciences held in the department of Chemistry, National Institute of Technology, Trichy on July 9-11, 2014.
6. Recent Advances in Materials Chemistry held at Department of Chemistry, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli on March 7 & 8, 2014
7. Science Academies Lecture Workshop on Photonic Materials during 10th – 11th, October, 2014 at the School of Electrical and Electronics Engineering, SASTRA University, Thanjavur.
8. **International Conference** on Chemical and Environmental Research (ICCER – 2015), organized by the PG and Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli on 17th December 2015.
9. **National Conference** on Advancement of Women in Science and Technology held at Bishop Hiber College, Tiruchirappalli from 5-6 August 2014.
10. Two days **seminar** organized by Indian Council of Medical Research (ICMR), Bon Secours College for Women, Thanjavur, National Seminar on Human Health Implication of Environmental Exposure To Toxins on 21 & 22 January, 2016.
11. One day **National Seminar** on Modern Trends in Chemistry organized by Department of Chemistry, Sengamala Thayaar Educational Trust Women's College, Mannargudi 20th December, 2017.
12. Two days 3rd **National Conference** organized by recent trend in nano materials and thin films held on 9-11 January, 2018

13. One day **National Seminar** Emerging Trends in Materials -18 organized by PG & research Department of Physics, Born Secours college for women Thanjavur on 22nd February 2018.
14. **Paper presented** titled Hydrothermal synthesis and its characterization of CeO₂ doped with ZrO₂ NPS in the “**International conference** on advancement in Engineering, Science and Technology”, held on 31st March 2018.
15. Participated at the 3rd international Conference on Nano materials Synthesis Characterization and Application held on mahatma Gandhi University, Kottayam, Kerala, India during 11,12 and 13 May 2018.
16. Two days Hands on **training in** Advanced research instrumentation for successfully completion of the training on UV, PL, GC-MS, FERMENTOR, CV, ELISA READER AND EBM [thin film deposition techniques] from 7,8 September 2018.
17. **Paper presented** titled Inhibition of stainless-steel corrosion by Polyaniline (PANi) in the **international conference** on “Recent trends in engineering, science and technology” held on 2nd March 2019
18. Presented research entitled Adsorption of Cr (VI) ions from aqueous solution Studies in the DST – SERB sponsored International Conference on Recent trends in green chemistry and material science (RTGCMS-2020) conducted by department of applied science and humanities, Mohamed Sathak Engineering college, Kilakarai on 23,24th January 2020.
19. Certificate course on COVID-19 Pandemic Awareness Programme, National Service Scheme units Marudupandiyar College, Thanjavur on 1.06.2020
20. Two days Online Course, Recalling The Foundations and Frontiers of Thermodynamics, Arignar Anna Govt.Arts.College , Cheyyar, on 3rd &4th June 2020.
21. One day expert talk A Beginner’s Guide to Patent and Patenting Process”MCKV Institute of Engineering, West Bengal on 17.04.2021
22. International conference, “Recent in Cosmetic Science and technology (ICRACAT_2021)” Kamla Nehru Mahavidyalaya. Nagpur on 20&21 May 2021.
23. Webinar “Chromatography Master class II: Consumables and Sample Loading”, BUCHI Labortechnik AG on 26.05.2021
24. Virtual international conference, “multination advanced materials” JVM Dvegree college , Maharashtra 09.10/08/2021
25. National research program, “Research Methodology” Govt Aravind College Kirandul, Jagdalpur 10/08/2021

Workshop Attended

1. Lecture-cum-Workshop on Interpretation of Spectral, Chromatographic, Crystallographic and Computational Data of Chemical Systems, from January 28-30, 2016, jointly organized by CRD, PRIST University and IICPT Thanjavur.
2. Workshop on Recent Trends in Chemistry (RTC-14) held on 26th and 27th September 2014. Sri Pushpam College (Autonomous), Pondi.

3. One day workshop on Energy Security for Tamil Nadu – Role of Renewables (NWEST – 2016) Organized by Physics Research Association, Khadir Mohideen College on 6th October, 2016.
4. Two day lecture workshop on Recent Development on Applied Physics organized by physics Research Association Khadir Mohideen College on 18th & 19th of March, 2017.
5. Attended 3 days, Bharathidasan University School of Chemistry Science academics Lecture workshops on Emerging Trends in Chemistry Synthesis (ETCS) on 22-24th March 2018.
6. Participated in the SERB, CSIR and BRNS sponsored two days national workshop on Theory and practice of X Ray diffraction & Scanning Electron Microscope held during 30 & 31 May 2019 at Sethu Institute of Technology, Pulloor, Kariapatti, Virudhunagar District
7. One day national Workshop “The Excitement of college physics 2019 “ organized by division of physics, School of advanced science, VIT Chennai in Association with Indian Association of Physics Teachers (IAPT) on 6th July 2019.
8. Online National level Workshop, Intellectual Property Rights Regime and its Impact”, AMET Deemed University Chennai on 25.05.2021.
9. Three Days online International Workshop, Science and Technology of Emerging Materials (e STEM – 21)”, Chettinad, College of engineering & Technology on 19-21.04.2021
10. Five days Workshop international yoga day ST. Francis De Sales College, Nagpur on 17/06/2021 to 21/06/21

Faculty Development programme

1. Four days Online Faculty Development programme, “Research Methodology”, Kamla Nehru Mahavidyalaya, Nagpur from 26.04.21 to 1.05.2021.
2. Three days Online Faculty Development programme ICT tool for effective teaching learning Kamla Nehru Mahavidyalaya, Nagpur, on 8 – 10 June 2021.
3. National level Online Faculty Development programme Prudent Teaching Dynamics Safi Institute of Advanced Study, Kerala on 21/06/21 to 28/06/21
4. National level Online Faculty Development programme, Hybrid research – An covering greater insight with combined Approaches.
5. Faculty of Education, Teerthanker Mahaveer University, Moradabad, 2/08/2021 to 09/08.2021.
6. Faculty Development Programme-Preceptors Perspectives on Revisiting and Redefining Values in Education. 25.02.2022-03.03.2022
7. International One Week Faculty Development Programme on Research Methodology 02.05.2022-07.05.2022
8. Six Days Faculty Development Program on Green Chemistry for Sustainable Development 16.05.2022-21.05.2022.
9. Faculty Development Program- Evaluation of smart Materials and their Contemporary Advances 25.10.2021-30.10.2021

10. Faculty Development Program- Digital Tools for Active Teaching. 28.06.2021-30.06.2021

22. Books Written and Published: Nil

23. Member in Editorial Board: Nil

24. Reviewer of the following journal: Nil

25. Membership in Academic Body/Board of Studies: Nil

26. Guest Lecturer: Nil

27. Membership of Professional Bodies: Nil

28. Details of Major/Minor Research Projects taken so far:

S.No.	Title of the Project	Funding Agency	Minor/Major	Grant	Period
Nil					

29. Details of participation in extra and co-curricular activities in our and other colleges:

S.No.	Name of Activity	Period
1	NSS Programme Officer, Khadir Mohideen College	01.0.2019 to
2	Womens Hostel Deputy Warden, Khadir Mohideen College	01.02.2018 to

30. Orientation / Refresher/Short Term/MOOC/Other Courses Attended

S.No.	Name of the Course	Place of the Course	Duration	Period
1	Orientation programme	Bharathiyar University, Coimbatore	28 days	13/02/2019 to 12/03/2019
2	Refresher Course	Pondicherry University, Pondicherry	14 days	14.07.2021 to 28.07.2021
3	NSS Orientation course	Madras School of Social Work	7 days	22/11/2019 to 28/11/2019
4	Short –Term Course	”. National Institute of Technology Srinagar	5 days	1-5 May.2021

31. Honors and awards received: Excellence Teaching in Higher Education for the year 2018