



RESUME

**Jamal Mohamed College (Autonomous),
Tiruchirappalli-20
PG & Research Department of Chemistry (Aided)**



1 Name Dr. J. SIRAJUDEEN

2 Date of birth 01-06-1970

3 Addresses:

Residential:

63, E. Pangali Street
Woraiyur,
Tiruchirappalli - 620003
Tamil Nadu,
India.

Office:

P.G & Research Department of Chemistry
Jamal Mohamed Collège (Autonomous),
Tiruchirappalli – 620 020
Tamil Nadu,
India

Email siraju_deen2003@yahoo.com
Mobile 9443436502

4 Designation Assistant Professor

5 Educational Qualifications:

S.No.	Examination Passed	University / College	Year of Passing
1.	M.Sc. (Chemistry)	Bharathidasan University, Trichy	1992
2.	M.Phil. (Chemistry)	Tamil University, Thanjavur	1999
3.	B.Ed (Chemistry)	Annamalai University, Chidambaram	1995
4.	Ph.D (Chemistry)	Bharathidasan University, Trichy	2003

6 Experiences:

Undergraduate : 18 years
Postgraduate : 17years
M.Phil : 08 years

7 Areas of Specialization : Organic chemistry, Environmental Chemistry
& Phytochemistry

8 Languages known : Tamil, English, Urdu & Hindi

9 Subjects Taught:

Under graduate	:	Inorganic, Organic and Physical Chemistry
Postgraduate	:	Inorganic, Organic and Physical Chemistry
M. Phil	:	Purification Techniques

10 Research Supervision:

		AWARDED	PURSUING
M.Phil	:	26	04
PH.D	:	03	05

11 Details of Publications: 36

1. Studies on the effect of sugar mill effluent on ground water quality at Pettavaithalai area, Tiruchirappalli, *Indian Journal of Environmental Protection*, **23, 663-666, 2003.**
2. Bacteriological Analysis of ground water in and around Pettavaithalai area, Tiruchirappalli, Tamil Nadu, *Journal of Ultra Scientist of Physical Sciences* **Vol.3, 83 – 86, 2005.**
3. Ground water conservation from industrial activities based on adsorption technique, *Oriental Journal of Chemistry*, **Vol.20; (2), 539- 542, 2004.**
4. Enumeration of total *coliform* in ground water of Pettavaithalai area, *Pollution Research*, **24(2), 283, 2005.**
5. Risk Assessment of Physico-Chemical contaminants in Ground Water of Pettavaithalai area, Tiruchirappalli, Tamil Nadu, **DOI: 10.1007/S10661-006-9198-5 ©Springer. 2006,**
6. Removal of Heavy metals from sugar mill effluent using low cost adsorbent (fly ash) *Journal of Indian Chemical Society*, **Vol 83, 944, 2006.**
7. Heavy metal concentration of Ground water in Pettavaithalai area, Tiruchirappalli, Tamil Nadu, *J. Ecotoxicol. Environ. Monit.*, **16(5):443-446, 2006.**
8. Effect of some Indian Traditional plants on few common pathogen. Advances research in Applied science, *International Journal pelagia research library*, **1(3),205-211, 2010 .**
9. Heavy metal contamination of ground water near south bank canal between Karur and Tiruchirappalli district, Tamil nadu, India. *Der chemical sinica International Journal pelagia research library*, **3(1),210-217, 2012.**

10. Studies on heavy metal pollution of ground water sources between Tamil nadu and Pondicherry, India. *Advances in applied science , International Journal pelagia research library*, **3(1),424-429, 2012.**
11. Seasonal variation of heavy metal contamination of ground water in and around Uyyakondan channel Tiruchirappalli district, Tamil Nadu. *Der chemical sinica International Journal pelagia research library***3(5), 1113-1119, 2012.**
12. Assessment of heavy metal pollution in ground water near proximity of south bank canal, Tamil nadu, India in *Asian journal of experimental chemistry* **7(1), 26-30, 2012.**
13. Removal of chromium (VI) from aqueous solution by using *Citrus limetta* Peelas an adsorbent Der Chemica Sinica, *pelagia research library*, **4(2):133-143, 2013.**
14. Water quality index of ground water around Ampikapuram area near Uyyakondan channel Tiruchirappalli District, Tamil Nadu, India, *Scholar Research Library*, **5 (3):21-26,2013.**
15. Statistical approach and assessment of physico-chemical status of ground water in near proximity of South Bank Canal, Tamil Nadu, India , *Scholar Research Library*, **5 (2):25-32,2013.**
16. Phenomenal influence of effluents released from uyyakondan channel on ground water quality in and around palakarai area Tiruchirappalli District, Tamil Nadu, *Journal of Environmental Research and Development*, **8(1)299-308, 2013.**
17. Application of water quality index for groundwater quality assessment on Tamil Nadu and Pondicherry state, India. *Journal of Environmental Research and Development*, **8-3, 2013.**
18. Water quality index of groundwater of Karumandapam area near Koraiyar River Tiruchirappalli District, Tamil Nadu, India. *World Journal of Pharmacy and Pharmaceutical Sciences*, **3(5), 1351-1361, 2014.**
19. Evaluation of Pharmacognostic, Physicochemical Studies and Heavy Metal Analysis of Medicinal Plant *Solanum Erianthum D .Don*, *World Journal Of Pharmacy and Pharmaceutical Sciences*.
20. Water quality assessment of groundwater resources between Tamil nadu and Pondicherry State, India, *World Journal Of Pharmacy and Pharmaceutical Sciences*, **3(7), 881-893, 2014.**
21. Physico-chemical contamination of groundwater in and around Tirunelveli district, Tamil Nadu, *Advances in applied science , International Journal pelagia research library*, **5(2),49- 54,2014.**
22. Water Quality Index of Ground water in and around Tirunelveli District, Tamil Nadu, India. *World Journal of Pharmacy and Pharmaceutical Sciences*, 2014. **3(10), 653-661, 2014.**
23. Natural Clay material a versatile adsorbent for the removal of fluoride from ground water. Proceeding of International symposium on integrated water resources management **Feb 19-20, Kozhikode Kerala 2014.**

24. Evaluation of Antibacterial and Antifungal activity of medicinal plant *Solanum erianthum*. Journal of drug discovery, **9(22), 35-39, 2014.**
25. Phytochemical studies and antibacterial activities of *Amaranthus spinus.L.*. World Journal of Pharmacy and Pharmaceutical Sciences, **3(12), 1692-1697, 2014.**
26. Photocatalytic Degradation of textile dye direct blue 86 bio-synthesized ZnO nanoparticles by modified solution- combustion method. World Journal of Pharmaceutical Research. **4, (2)1228-1238, 2015.**
27. A Study on Groundwater Pollution Using water Quality Index in and Around Edamalaipatti Pudhur area Near Koraiyar River, Tiruchirappalli District, Tamil Nadu, India. World Journal of Pharmaceutical Research **2,(2),1259-1270, 2015.**
28. Assessment of physic-chemical parameters and water quality index of Viralimalai area near Koraiyar River Pudukkottai District, Tamil Nadu, India, *Der chemical sinica (6):13-24,2015.*
29. Heavy metal Pollution index of Groundwater of Fathima nagar area near Uyyakondan channel Tiruchirappalli district, Tamil Nadu, India. World Journal Of Pharmacy and Pharmaceutical Sciences, **4, (1), 967-975, 2015.**
30. Phytochemical Invitro antibacterial and antifungal analysis of leaf extract of *solanum erithanum D.Don.*, World Journal of Pharmaceutical Research. **4(1),1805-1811,2015.**
31. Removal of Cr(VI) and Ni(II) from Its Aqueous Solution By Using Activated Carbon Prepared From the Plant *Phyllanthus Emblica.L.* World Journal Of Pharmacy and Pharmaceutical Sciences, **4(08),994-1002,2015** ISSN: 2278-4357.
32. Effect of pH and Adsorbent dosage on the removal of Hexavalent chromium from its aqueous solution by activated carbon of pachygone ovat. World Journal Of Pharmaceutical Sciences, **4(08), 1988-1990 ,2015** ISSN: 2321-3310.
33. Studies on Heavy Metal Pollution Index of Groundwater of Edamalaipatti Pudhur Area near Korai River Tiruchirappalli District Tamil Nadu, India. International Journal for Scientific Research & Development Vol.3, Issue 08, **2015.**ISSN: 2321-0613.
34. Synthesis and Pharmacological Evaluation of Novel Heterocyclic Compound. .World Journal of Pharmaceutical Research. **Vol 5, Issue 1,589-598 ISSN 2277-7106.**
35. Synthesis and pharmacological evaluation of novel Heterocyclic compound., International Journal for Scientific Research & Development **Vol. 3, 696- 699, 2015** ISSN (online): 2321-0613.
36. Physico Chemical Characteristics of Groundwater of Cuddalore District, Tamilnadu, South India. Journal of Chemistry and Chemical Sciences, Vol.5 (10), 542-549, October **2015.** ISSN 2319-7625.

12 Details of Papers Presented: 37

1. Paper presented in the UGC Sponsored National conference on “**Hydrochemical, Biochemical studies and Environmental pollution**” held at Moulana Azad College, Aurangabad, Maharashtra. 7-8 October 2002.

2. Paper presented in the International Conference on “**Sustainable Development and Management of Natural Resources**” held at Holy Cross College, Tiruchirappalli, Tamilnadu. 15-17 March 2003.

3. Paper presented in the UGC Sponsored National Symposium on “**Environmental friendly Textile Processing**” held at AVVM, Sri Pushpam College, Poondi, Thanjavur, Tamilnadu. 19-20 February 2004.

4. Paper presented in the UGC sponsored State Level Seminar on “**Emerging Trends in Chemistry**” Jamal Mohamed College, Tiruchirappalli paper entitled “**Removal of Heavy metals from rice husk**” on 9th March 2006.

5. Paper presented in the UGC sponsored State Level Seminar on “**Frontier Studies in Chemistry**” Jamal Mohamed College, Tiruchirappalli paper entitled “**Heavy Metals Concentration of Ground Water in Lalgudi Area**” on 9th and 10th February 2010.

6. Paper presented in the UGC sponsored State Level Seminar on “**Frontier Studies in Chemistry**” Jamal Mohamed College, Tiruchirappalli paper entitled “**Synthesis And Characterization of Mannich Base**” on 9th and 10th February 2010.

7. Paper presented in the **National conference on current Trends in Chemistry** held at Dept. of Chemistry, Bharathiar University Coimbatore. entitled “**Impact of Tsunami on Ground water of the coastal areas of Nagapattinam District**” on 2-3rd December 2010.

8. Paper presented in the Inter National conference on IVth World Aqua congress at New Delhi titled “**Scavenging action of Cyano bacteria on the industrial effluent**” held between 08.12.2010 and 10.12.2010

9. Paper presented in the National conference on “**Exploration of the National Bio-active Compounds from thre Marine resources**” Bharathidasan University, Tiruchirappalli entitled “**Phytochemical analysis of *Catharanthus Roseus.L***” on 10th and 11th August 2011.

10. Paper presented in the **National seminar on Enhancement of quality in research publications and recent research in water, alternative energy resources, materials and health** at Auxilium College, Vellore entitled “**Phenomenal Influence Of Effluents From Uyyakondan Channel On Ground Water Quality In And Around Puthur Area Tiruchirappalli District, Tamil Nadu,, on 15th and 16th Decemper 2011.**

11. Paper presented in the **National seminar on Enhancement of quality in research publications and recent research in water, alternative energy resources, materials and health** at Auxilium

College, Vellore entitled "Assessment of physico- chemical status of ground water in Lalabet area near south bank canal, Karur district, Tamil nadu,, on 15th and 16th Decemper 2011.

12.A paper presented in the National seminar on new innovative ideas in science and technology at Karur College of engineering entitled "Assessment of heavy metal concentration of ground water in and around cantonment, Uyyakondan channel, Tiruchirappalli district, Tamil nadu" on march 2011.

13.A paper presented in the National conference on Current trend in chemistry Research at Jamal Mohamed College, Tiruchirappalli entitled "Assessment of Ground water quality in and around Ampikapuram area, Tiruchirappalli district, Tamil Nadu" on 27th and 28th feb2013.

14.A paper presented in the National conference on Current trend in chemistry Research at Jamal Mohamed College, Tiruchirappalli entitled "Physico Chemical analysis of ground water samples of Karaikal area, Tamil Nadu" on 27th and 28th feb2013.

15.A paper presented in the National conference on Current trend in chemistry Research at Jamal Mohamed college, Tiruchirappalli entitled " Pollution status and Water quality analysis of ground water of Tamil Nadu and Pondicherry state, India"on 27th and 28th Feb. 2013.

16.A paper presented in the National conference on Current trend in chemistry Research at Jamal Mohamed College, Tiruchirappalli entitled "Antimicrobial and Phytochemical analysis of a medicinal plant" on 27th and 28th feb 2013.

17.A paper presented in the National conference on Current trend in chemistry Research at Jamal Mohamed College, Tiruchirappalli entitled "Structural Identification of the Phyto Constituents of the Chloroform Extract of Catharanthus roseus. L Using GC-MS" on 27th and 28th feb 2013.

18.A paper presented in the International conference on Chemistry in synergy with materials and Biology at Bishop Heber College, Tiruchirappalli Entitled "Drinking water quality management through statistical studies for sub canal cauvery river Tamil Nadu India" on Jan 2014.

19.A paper presented in the National conference on Water Research Management in Tamil Nadu Jamal Mohamed College, Tiruchirappalli entitled "water quality index of Ground water of Karumandapam area, Tiruchirappalli district, Tamil Nadu" on 6th March 2014.

20.A paper presented in the International conference on Chemical and environment and Chemistrys and Biology at Jamal Mohamed College, Tiruchirappalli Entitled "Evaluation of Groundwater quality using multiple linear regression and structural equation modelling" on 11th and 12th March 2014.

21.A paper presented in the International conference on Chemical and environment and Chemistrys and Biology at Jamal Mohamed College, Tiruchirappalli Entitled "Phytochemical Studies and Antimicrobial Activities of Amaranthus spinosus.L" on 11th and 12th March 2014.

22. A paper presented in the National conference on Advancement in Materials Science. Coimbatore Institute of Technology. **“A Study on Groundwater Pollution Using Water quality index in and around Edamalaipatti Pudur area near Koraiyar River, Tiruchirappalli District, Tamil Nadu, India”** on 26th and 27th September 2014.

23. A paper presented **in the International conference on Chemical and Materials. BIT campus Anna University, Tiruchirappalli** “Heavy Metal Pollution index of Groundwater of Fathima Nagar area near Uyyakondan Channel Tiruchirappalli District, Tamil nadu, India” **on 14th & 15th Nov 2014.**

24. A paper presented **in the International conference on Chemical and Materials. BIT campus Anna University, Tiruchirappalli** “Assessment of Physico – Chemical Parameters and Water Quality Index of Viralimalai area Near Koraiyar River Pudukkottai District, Tamil Nadu, India” **on 14th & 15th Nov 2014.**

25. A paper present in the Two Day National Conference of “Current Scenario In Material Chemistry(CSIMC2015)” Jamal Mohamed College Tiruchirappalli “ A Sdtudy On Spatial Distribution Of Pollutions In Ground Water Proximity To Uyyakondan Channel Using GIS” **on 09th & 10th Feb 2015.**

26. A paper present in the Two Day National Conference of “Current Scenario In Material Chemistry(CSIMC2015)” Jamal Mohamed College Tiruchirappalli “ Heavy Metal Pollution Index Of Groundwater Of Karumandapam Area Near Koraiyar River Tiruchirappalli District, Tamil Nadu, India. **On 09th & 10th Feb 2015.**

27. A paper present in the Two Day National Conference of “Current Scenario In Material Chemistry(CSIMC2015)” Jamal Mohamed College Tiruchirappalli “ Water Quality Index Of Ground Water In and Around Tirunelveli District, Tamil Nadu, India. **On 09th & 10th Feb 2015.**

28. A paper present in the Two Day National Conference of “Current Scenario In Material Chemistry(CSIMC2015)” Jamal Mohamed College Tiruchirappalli “ Adsorption Of Hexa valent Chromium Chemistry On Activated Carbon Prepared From Phyllanthus Acidus.L **On 09th & 10th Feb 2015.**

29. A paper present in the Two Day National Conference of “Current Scenario in Material Chemistry (CSIMC2015)” Jamal Mohamed College Tiruchirappalli “Phytochemical Analysis And Antimicrobial Activity Of Andrographis Paniculata.l. **On 09th & 10th Feb 2015.**

30. A paper presented in the International conference on Chemical and Environmental Research “Statistical study on physico chemical characteristics of groundwater in and around Panjapuir area near korai river, Tamil nadu, india”. **On 17th December 2015.**

31. A paper presented in the International conference on Chemical and Environmental Research “Phenomenal influence of Effluents in and around urban Uyyakondan channel of Tiruchirappalli District, Tamil nadu, India”. **On 17th December 2015.**

32. A paper presented in the International conference on Chemical and Environmental Research Photocatalytic degradation of textile dye C.I. Direct Orange 39 by using ZnO nanoparticles prepared from pachygone ovate. **On 17th December 2015.**

33. A paper presented in the International conference on Chemical and Environmental Research "A Study on Heavy Metal Contamination of Groundwater in and around Tirunelveli District, Tamil Nadu, India". **On 17th December 2015.**

34. A paper presented in the International conference on Chemical and Environmental Research "Assessment of Groundwater Quality proximity to south bank canal area between Karur and Tiruchirappalli District, Tamil Nadu, India". **On 17th December 2015.**

35. A paper presented in the International conference on Chemical and Environmental Research "A Study on Physico – Chemical Parameters of Groundwater Quality Sendurai Taluk in Ariyalur District, Tamil Nadu, India". **On 17th December 2015.**

36. A paper presented in the International conference on Chemical and Environmental Research "Identification and Characterisation of Jamun (Eugeniaceae) Aqueous Extract by Using GC- MS study". **On 17th December 2015.**

37. A paper presented in the International conference on Chemical and Environmental Research "Synthesis and Characterisation of some Heterocyclic Compound". **On 17th December 2015.**

13 Details of Seminars / Conferences / Workshops Attended:

1. International seminar on "Placer Deposits" held at Tamil University, Thanjavur, Tamil Nadu. 14-20 December 1999.

2. National seminar on "Coastal Resources Management & Conservation" Tamil University, Thanjavur, 21st to 22nd December 1999.

3. National seminar on "Atomic Energy, Ecology and Environment" Jamal Mohamed College, Tiruchirappalli, Tamil Nadu. 8-9 February 2001.

4. Participated in the UGC Sponsored National Symposium on Recent Trends in Heterocyclic Chemistry (NSRTHC-2004) Conducted by PG & Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli-20 during 24 & 25 September 2004.

5. Participated in the seminar sponsored under Autonomous Grant "Advanced Topics in Chemistry" held on 13, 14 March 2007, organized by the Department of Chemistry, Jamal Mohamed College, Tiruchirappalli, Tamil Nadu.

6. National seminar on "Recent Advances in Chemistry", Periyar University, Salem. 1st and 2nd March, 2007.

7. To attend the International Conference on Frontiers in Nano Science Technology and Applications FIN STA-14 at Sri Sathya Sai Institute of Higher Learning, Puttaparthi Andhra Pradesh.

14 MAJOR RESEARCH PROJECT:

Sanctioned by Ministry of Environment and Forests, New Delhi (MOEF) of total grant of Rs.16, 24,200/- in July 2010, titled “Seasonal influence of effluents released in Uyyakondan channel on the ground water quality of Tiruchirappalli District, Tamil nadu and the management Strategies”.

15 Patents got

- 1) Phytochemistry
- 2) Nano synthesis

16 Details of chairing as resource person:

1. Acted as a resource person on 23rd July 2009 for one day seminar on creation of scientific awareness programme sponsored by TNCST at Syed Hameeda Arts and Science College, Keelakkarai, Ramanathapuram.(Dist).
2. Acted as a resource person on 28th July 2012 titled Chemistry in everyday life at Cauvery College for women, Tiruchirappalli.
3. Acted as a resource person on 18th December 2014 for faculty development programme at University College of Engineering Thirukuvalai Thiruvarur District.
4. Acted as a resource person on 4th April 2015 titled Job opportunities in Chemistry at Deivanai Amman College for women, Vilupuram.

17 Details of Incharge / Participation in extracurricular Activities: (NSS, NCC, Sports, Games, Voluntary Association and Cultural Activities):

1. Acted as a vice president of chemistry association from 2008 –2011(3 years).
2. Department Library in- charge from 2012 to 2015.

18. Awards Received.

Received Young Investigator Award Sponsored by Society for Scientific Research on 22nd January 2016 at Ercade Salem.