

**Dr. I. AROCKIARAJ**

Assistant Professor

Department of Chemistry, St.Joseph's College(Autonomous)

Tiruchirappalli-620002 , Tamilnadu, India

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**Address for Communication :**

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9842687930

**Educational Qualifications:**

S.No	Degree	Specialization	College / University	Year of Passing
1	B.Sc	Chemistry	MKU	1993
2	M.Sc	Chemistry	BDU	1995
3	M.Phil	Chemistry	BDU	1996
4	B.Ed	Physical Sciences	ALU	1998
5	PGDCA	Computer	MKU	1999
6	M.Sc	Info.system & Applications	BDU	2001
7	Ph.D	Chemistry	BDU	2015
8	SET	Chemistry	MTU	2016

**Publication of Research Papers**

Category	Conferences	Journals	Total
National/ International	10	12	22

**Academic Achievements:**

**First Rank holder and medallist in UG, PG, M.Phil and B.Ed**

**Publications in national / International Journals**

1. **I. Arockiaraj**, Kinetic and Equilibrium Studies on Adsorption of Reactive Dye(Reactive Blue 4) by Lowcost Nanoporous Activated Carbon Derived From Ipomoea Carnea Stem Waste, Journal of Environmental Nanotechnology, March 2014, Volume 3, No.1, pp. 79-87
2. **I. Arockiaraj**, Sorption dynamics of Reactive and Direct Dyes Onto Activated Carbon Derived From Ipomoea Carnea Stem Waste, Pelagia Research Library, Advances in Applied Science Research, April 2014, 5(2):399-404
3. **I. Arockiaraj**, Sorption dynamics of Acid and Basic Dyes Onto Activated Carbon Derived From Ipomoea Carnea Stem Waste, , Pelagia Research Library, Der Chemica Sinica, April 2014, 5(2): 118-123
4. **I. Arockiaraj**, Dynamic and Equilibrium Studies on Adsorption of Acid Dye(Acid Red 2) by Lowcost Nanoporous Activated Carbon Derived From Ipomoea Carnea Stem Waste, Indian Journal of Scholarly Research, May 2014, Volume :3, Issue: 5, Pages 4-8
5. **I. Arockiaraj**, Effects of various Carbonization Processes in the Preparation of Nanoporous Carbon Materials using Ipomoea Carnea Stem Waste for the Removal of Dyes from Textile Industrial Effluents, Journal of Environmental Nanotechnology, June 2014, Volume 3, No.2 , pp. 9-21
6. **I. Arockiaraj**, Dynamic and Equilibrium Studies on Adsorption of Direct Dye(Direct Red 28) by Lowcost Nanoporous Activated Carbon Derived From Ipomoea Carnea Stem Waste, Indian Journal of Applied Research, July 2014, Volume 4, Pages 69-73
7. **I. Arockiaraj**, Film- pore diffusion modeling for Sorption of Azo dye onto one and three dimensional Nanostructured Carbon nano materials from Jatropa Curcas, Journal of Environmental Nanotechnology, June 2013, Volume 2, No.2, pp.66-75.
8. **I. Arockiaraj**, Kinetic and Equilibrium Studies on Adsorption of Basic Dye ( Basic Violet 10) By Lowcost Nanoporous Activated Carbon Derived From Ipomoea Carnea Stem Waste , International Journal of Nano Corrosion science and Engineering , December 2015, 2(5), (2015), PP.447-457.
9. **I. Arockiaraj**, Sorption Kinetics and Dynamics of Reactive Dye onto Nanoporous Activated Carbon Derived From Ipomoea Carnea Stem Waste By Sulphate Process, International Journal of Nano Corrosion science and Engineering, December 2015, 2(5), (2015), PP.245-254.
10. **I. Arockiaraj**, Sorption Kinetics and Dynamic Studies of Basic Dye By Lowcost Nanoporous Activated Carbon Derived From Ipomoea Carnea Stem Waste by Sulphate process, International Journal of Frontiers in Nanoscience and Nanotechnology
11. **I. Arockiaraj**, Sorption kinetics and dynamics of acid dye onto nanoporous activated carbon derived from ipomea carnea stem waste, Infokara Journal,1021-9056,2020.
12. **I. Arockiaraj**, Antimicrobial activity prediction, inter and intramolecular charge transfer investigation, reactivity analysis and molecular docking studies of adenine

derivatives, Journal of biomolecular structure and dynamics, 1538-0254 , 2023. Taylor and Francis.

### **Papers presented in National / International conferences**

1. **I. Arockiaraj**, Effects of various Carbonization Processes in the Preparation of Nanoporous Carbon Materials using Ipomoea Carnea Stem Waste for the Removal of Dyes from Textile Industrial Effluents, International Conference on Chemical and Environmental Research (ICCER), held at Jamal Mohammad College, Trichy, TN, India from 11<sup>th</sup> March to 12<sup>th</sup> March 2014.

2. **I. Arockiaraj**, Sorption Dynamics Of Reactive Dye Onto Activated Carbon Derived From Ipomoea Carnea Stem Waste, CSIR-Sponsored National Seminar on Recent Trends on Smart Materials (NSSM), held on 17<sup>th</sup> April 2014 at Kings College of Engineering, Thanjavur, TN, India.

3. **I. Arockiaraj**, The Physiological effects and Biochemical mechanisms of Testosterone steroid

in Sports-doping, National Conference on Doping in Sports-Invigoration, Prerequisites and misapprehensions, page.443, held on 28<sup>th</sup> July 2012 at National College, Trichy, TN, India.

4. **I. Arockiaraj**, Kinetic and Equilibrium Studies on Adsorption of Basic Dye ( Basic Violet 10) By Lowcost Nanoporous Activated Carbon Derived From Ipomoea Carnea Stem Waste, International Conference on Chemical and Environmental Research (ICCER), held at Jamal Mohammad College, Trichy, TN, India on 17<sup>th</sup> December 2015.

5. **I. Arockiaraj**, Sorption Kinetics and Dynamics of Reactive Dye onto Nanoporous Activated Carbon Derived From Ipomoea Carnea Stem Waste By Sulphate Process, International Conference on Chemical and Environmental Research (ICCER), held at Jamal Mohammad College, Trichy, TN, India on 17<sup>th</sup> December 2015.

6. **I. Arockiaraj**, Ariviyal - Valluvanin Arivu Eduthiyambum Iyal, International Conference on Thirukkural, held at Anna University, Chennai, TN, India on January 2004, Organised by International Tamil Research Institute, Chennai and Anna University, Chennai.

7. **I. Arockiaraj**, Sorption kinetics and dynamic studies of Basic Violet 10 by lowcost nanoporous activated carbon from Ipomoea carnea stem waste by Sulphate process, International Conference on Chemistry and Renewable energy, held at Bishop Heber college on 25-26 Feb '2016

8. **I.Arockiaraj**, The Chemistry of medicinal plants, August, 2024 , International Conference, SRM Ramavaram, Chennai , 30.06.2020.

9. **I.Arockiaraj**, Kinetic and equilibrium studies on adsorption of Acid dye , AO7 by nanoporous activated carbon from ipomea carnea, Easwari Engineering college

10. **I.Arockiaraj**, Corrosion inhibition efficiency of carbon steel in marine system with novel inhibitors, International conference on sustainable solutions and Recycling (ICSSR-2024) , Thanthai Hans Roever College, Perambalur. on 27 &28 th August 2024.

**Professional Qualifications and Experience:**

S.No	Orientation / Refresher	Month and year	Subject	University
1	Orientation Programme	September 2022	Chemistry	Delhi
2	Refresher Course	December 2022	Chemistry	Delhi
3	Refresher Course	December 2023	Chemistry	Delhi
4	Ph.D Guideship	2018	Chemistry	BDU

**Books Authored:**

S.No	Title of the book	Year of publication	Subject	Publications
1	Engineering chemistry I	2007	Chemistry	Arumbu
2	chemistry for Polytechnic students	2008	Chemistry	Arumbu
3	Engineering chemistry II	2009	Chemistry	Arumbu

**Skills:**

1. Well versed both in Tamil and English.
2. Computer skills like MS-Office
3. Curriculum Designing skills-Department of Chemistry
4. Anchoring, Oratory and Event organising skills
5. Softskill training skills

**Teaching Experience:**

**UG: 25 years PG: 12 years**

**Article published and presented at the International Conference on Thirukkural**

S.No	Month / Year	Article published and presented	Volume of the Conference Book	Organised by
1	January 2004	Science – Ariviyal-Valluvanin Arivu	Volume 1 International Thirukkural	International Tamil Research Institute, Chennai

		eduthiyambum Iyal	Conference	
2	August 2005	Science – Ariviyal-Valluvanin Arivu eduthiyambum Iyal	published in Kalangium magazine of Anna University	Anna University, Chennai

#### Conferences / Seminars / Workshops Attended: 118

S.No	Type of programme attended	Total
1	Conference	118

#### Seminars Delivered / Organised

S.No	Topic of the Seminar Delivered	Month / Year	Organised by
1	Global Warming	March 2010	PABIIT, Trichy
2	Thirapada Padalgali Vazhviyal	September 2012	NCT, Trichy
3	Employability Skills	October 2009	ISTE – Chapter
4	TNSCST – Young student scientist	2017	NCT, Trichy
5	DST-INSPIRE science camp	August 2018	NCT, Trichy
6	RSC funded Energy & Environment workshop	March 2019	NCT, Trichy
7	IIT-JAM workshop	November 2019	Department of Chemistry, SJC, Trichy
8	Science Exhibition	December 2020	Department of Chemistry, SJC, Trichy
5	International Conference	May 2020	Department of Chemistry, SJC, Trichy
6	Retrospect'21 Alumni meet	March 2021	Department of Chemistry, SJC, Trichy
7	Environmental Awareness week	September 2023	, SJC, Trichy
8	Short film contest	August 2023	, SJC, Trichy
9	Environmental Awareness seminars	December 2024	SJC, Trichy
10	Coconvenor of Event management, INDEP'2024	December'2024	SJC, Trichy

#### Membership in Professional Bodies

S.No	Name of the Professional Body	Nature of Membership	Membership Number
1	ISTE , New Delhi	Life Member	LM 61789

**Foreign Visit**

S.No	Nature of Visit	University	Country	Year
1	Educational	UCSI	Kuala Lumpur, Malaysia	2010

**As Resource Person:**

S.No	Type of Programme	Title	Beneficiaries	Days	Date
1	National Seminar	Applications of Nanotechnology	Students of Imayam Arts and Science College	1	23.01.2019
2	Microlevel Chemical Analysis	St.Joseph`s College, trichy	St.Joseph`s College, trichy	1	06.09.2019
3	DST-INTERNSHIP SCIENCE CAMP	Mentor lecture on Scientific Aptitude	+2 Students , trichy	1	24.07.2019
4	TNPSC Training workshop	Chemistry	Aspirants of service commission	1	08.08.2019
5	TNSCST Sponsored Programme	Young student scientist programme	Students and staff	1	07.01.2019
6	FDP	Recent Advances and Research Avenues in Material Science	Students of Kalasalingam University	1	10.06.2020
7	Online Webinar	Innovative perspectives of Science teaching	Thiagarajar college student teachers	1	10.11.2020
8	Value Added Course	Innovative methods of Solid waste disposal	Students of SJC		01.03.2020
9	Seminar	Thermodynamics	Students of PS CBSE school	1	07.08.2021
10	Seminar	Thermodynamics	Students of PS CBSE school	1	13.08.2021
11	Fresher's day celebration	The scope of chemistry	UG, PG students of NCT	1	11.08.2022
12	Special Lecture series	Environmental Science	Students of NCT	1	22.10.2022
13	Special Lecture series	Gender science	Students of NCT	1	23.09.2022
14	National Science Day Celebration-2023	Glimpses of innovation in nanoscience	Students of MAM College, Trichy	1	28.02.2023

15	National children's science congress 2023	Understanding ecosystem for health and well being	JMC,Trichy	1	30.10.2023
16	31 st National children's science congress 2023	Understanding ecosystem for health and well being	SJC students	1	28.10.2023
17	31 st National children's science congress 2023	Understanding ecosystem for health and well being	SJC Students	1	17.10.2023

### **Coordinator:**

1. Environment Club – Coordinator ( 2022 onwards)
2. Department Alumni – Coordinator (2022 onwards)
3. Fine Arts Club – member ( 2023 onwards)
4. value Added course – coordinator ( 2023-2024)
5. Quiz master ( 2021)
6. Evaluator of National children's science forum ( 2023 onwards )
7. IIT JAM – Coordinator ( 2019)
8. Commentator of various sports functions ( 2024)
9. Commentator of various cultural events
10. Coordinator of Literary and Quiz events (2023 onwards)
11. Awareness creator among the youth about the Adverse effects of Drugs  
Through ALL INDIA RADIO. (2023)
12. Anchored various academic and cultural events in the presence of Academicians,  
vice-chancellors and cine actors.
13. Member of the Gender champion club, St.Joseph's College,Trichy
14. President of Chemistry Association ( 2021-2022 )

### **Awards Received:**

1. Received the Award “ Frontier of knowledge” from the minister for School education  
Mr.Anbil Mahesh Poyyamozhi in

ICRS conference, February 2024 at NCT, Trichy.

2. Received the “Best Teacher Award” from Big learn and Kanmalai Trust on 22.09.2024 for inspiring the students

and dedicated service to the student community.

3. Received Award from the International Tamil Research Institute, Chennai for my article on The Scientific inventions

and innovations in Thirukkural in 2004.

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