

PROFILE

Dr. A. TONY ELIZABETH

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1. EDUCATIONAL DETAILS

Degree	Subject	Institution	Year	Percentage of Marks
B. Sc	Chemistry	Holy Cross College (Autonomous) Tiruchirappalli	2007	74.5
M. Sc	Chemistry	Holy Cross College (Autonomous) Tiruchirappalli	2009	78.1
B. Ed	Physical Science	Holy Cross College of Education, Tiruchirappalli	2010	81.3
Ph. D	Chemistry	St. Joseph's College (Autonomous) Tiruchirappalli	2018	

2. WORKING EXPERIENCE

- ❖ Working as an Assistant Professor in Holy Cross College from 2016 till date.

3. PAPERS PUBLISHED

1. A. Tony Elizabeth, S. Denis Arockiaraj , A.I. Rajasekaran , Antonisamy Edwin Vasu , Morinda coreia fruits derived green-emissive nitrogen-doped carbon quantum dots: Selective and sensitive detection of ferric ions from water. *Inorganic Chemistry Communications*. 164 (2024) 112390 DOI: 10.1016/j.inoche.2024.112390.
2. A. Tony Elizabeth, E. James, L. Infant Jesan, A. Sebastin Thangadurai and Antonisamy Edwin Vasu, Green synthesis of superparamagnetic maghemite nanoparticles using banana pseudo-

stem: a reusable heterogeneous catalyst for Fenton-like degradation of tetracycline antibiotics. *New Journal of chemistry*. 47(2023) 20306 DOI: 10.1039/d3nj03747a

3. A. Tony Elizabeth, E. James, L. Infant Jesan, S. Denis Arockiaraj, Antonisamy Edwin Vasu, Green synthesis of value-added nitrogen doped carbon quantum dots from *Crescentia cujete* fruit waste for selective sensing of Fe^{3+} ions in aqueous medium. *Inorganic Chemistry Communications*. 149(2023) 110427 DOI: 10.1016/j.inoche.2023.110427
4. A. Edwin Vasu, A.P. Mary Sri Archana, A. Christopher Sagayaraj, F. Fabiyan Reymond, V. Antony Jasmine, A. Tony Elizabeth, Magnetic nanocomposite fabrication using banana leaf sheath Biofluid: Enhanced Fenton catalytic activity towards tetracycline degradation. *Inorganic Chemistry Communications* 1411-10(2022) DOI: 10.1016/j.inoche.2022.1095
5. Paulraj A and Tony Elizabeth A, Removal of Cu (II) and Ni (II) from Aqueous solutions by Adsorption. *Chemical Science Transactions* **5(2)**, 361-370 DOI:10.7598/cst2016.1217 ISSN: 2278-3458
6. Paulraj A and Tony Elizabeth A, Removal of Rhodamine B and Congo red from aqueous solutions by adsorption onto activated carbons. *Chemical Science Transactions* **5(1)**: 87- 96 (2016). DOI: 10.7598/cst2016.1147 ISSN: 2278-3458
7. Paulraj A and Tony Elizabeth A, Surface chemical and textural modifications of activated carbon prepared from waste wood shavings by wet oxidations. *Chemical Science Transactions* **4(4)**: 1107-1115 (2015). DOI: 10.7598/cst2015.1130 ISSN: 2278-3458

4. CONFERENCES ATTENDED

1. Participated in “National Conference on Recent Advances in Chemistry Research and its Applications” on 19th Jan 2017 at St. Joseph’s College, Tiruchirappalli-2.
2. Participated on “Networking Research and Innovation in Higher Education for a Sustainable Society: Challenges and Channels” (ICNRI 2018) on 25-27 July 2018 at Holy Cross College (Autonomous), Trichy-2.
3. Attended a National conference on “Nano National Summit –Current Trends and Future Perspectives” (NNSCTFP-2019) at Holy Cross College, Trichy-2.
4. Awarded **Best Paper Award** for the paper presented in International conference on “Materials Science for Sustainable development” (ICMSSE-2022) on 23rd and 24th August 2022 at Holy Cross College (Autonomous), Trichy-2.

5. RESEARCH TITLE

Removal of some metal ions, dyes and phenols from aqueous solutions by adsorption.

6. SUBJECTS OF EXPERTISE

- a. Inorganic Chemistry
- b. Physical Chemistry
- c. Environmental Chemistry

7. COURSE COMPLETED

- a. completed on-line swayam course on stress management with 72%.
- b. completed Online one-week Faculty Development Programme on “Advanced Pedagogical Techniques” from 25 June - 01 July, 2022 and obtained Grade A⁺ conducted by Teaching Learning Centre, Ramanujan College, University of Delhi.
- c. completed on-line swayam course on Basics in Inorganic chemistry.

8. LEADERSHIP PROFILE

- a. Staff in-charge for the Rescapes activities in the year 2016-2017
- b. Staff in-charge for the association of the Department in the year 2017-2018
- c. Coordinator for the Chemistry shift-II from 2018-2022
- d. YRC Coordinator for Shift-II students from the year 2018 -2021.
- e. Sports in charge for the department in the year 2018-2019.
- f. Alumnae incharge for the department from 2020 till date.
- g. Swayam incharge for the department 2022 -2023

9. E- CONTENT DEVELOPED

- Chemical kinetics
- Analytical chemistry
- Gravimetric Analysis

10. BOOK PUBLICATION:

- Co-author in the book entitled “Lab Manual” for Chemistry Students.

11. KEY ACHIEVEMENTS:

- Resource Person for the two days’ workshop on “Journey into Science - Exploration of Wonders” organized by PG and Research Department of Chemistry, Holy Cross College (Autonomous), Tiruchirappalli 620 002 on 30th and 31st May 2024.
- Resource Person for the workshop on “Preparation of Chemical reagents and Laboratory safety measures for newly recruited staff and nonteaching staff” organized by PG and Research Department of Chemistry, Holy Cross College, Trichy on 28th June 2024.

12. AREAS OF RESEARCH INTEREST

Environmental Chemistry, Surface Chemistry, Adsorption, Phytochemistry

I hereby declare that the information provided above is true to the best of my knowledge

(A. Tony Elizabeth)