

## Dr. S. PHILOMINA MARY

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### ***Educational Qualification***

PhD	CHEMISTRY	St. Joseph's College, 2022
MSc	CHEMISTRY	First class (75.40%), St. Joseph's College, 2013-2015
BSc	CHEMISTRY	Distinction (78.00%), Holy Cross College, 2010-2013
HSC		St. Joseph's Anglo Indian G.H.S School, (76.58%), 2010
SSLC		St. Vincent Matriculation School, (86.54%), 2008

### ***Certificate Courses***

Ms Office	Jan Shikshan Sansthan , 'O' Grade, 2010
DTP	Jan Shikshan Sansthan, 'O' Grade, 2010
Tally9.0	Jan Shikshan Sansthan, 'O' Grade, 2011
Medicinal Herbs & Mass Cultivation,	Holy Cross College, 81.67%, 2013
Completed Online course in <i>SWAYAM</i> on Metal Mediated Synthesis-I	

### ***Experience***

- Teaching experience - 5yrs as Assistant Professor, Department of Chemistry, Holy Cross College (autonomous), Trichy-2.

### ***Research***

- Received Scholarship from Tamil Nadu Directorate of Collegiate Education (TNDCE) for the year October (2015 – 2018).

### ***Book Published-1***

- Food Adulteration, Home Care Products and Herbal Cosmetics, published by Holy Cross Publishing House, Publication division, Holy cross college (autonomous), Tiruchirappalli-620002. ISBN: 978-81-953014-7-8

### ***Awards Received***

- *Young Researcher Award* from InSc International Publishers (2022)
- *A P J Abdul Kalam Award* from ARAI Association of Researchers and Academicians in India (2024)
- *Award of Recognition* from Holy Cross College (autonomous), Trichy-2.

## ***Editor and Membership***

- Editor for the book series “Futuristic Trends in Chemical Material Sciences & Nano Technology”
- Reviewer in InSc International Publishers.
- Life member in InSc International Publishers.
- Life member in ARAI Association of Researchers and Academicians in India.

## ***Projects Guided***

- UG - 17                      PG – 4

## ***E-Content Developed - 04***

## ***Papers Published - 11***

1. Deivasigamani Ranjith Kumar, Devaraj Manoj, Andreas Rosenkranz, Abdullah Al Mahmud, Jae-Jin Shim, S. Philomina Mary, Subramanian Nellaiappan, Micro-structured growth of 1,2,4-triazole by electro-polymerization for highly selective detection of gallic acid and uric acid, *Microchemical Journal*, 195 (2023) 109375, <https://doi.org/10.1016/j.microc.2023.109375>.
2. M. Kavitha, Shenbagam, R. Kanmani and S. Philomina Mary, Biogenic Synthesis of Copper oxide and Zinc oxide Nanoparticles using Catharanthus roseus L. flower extract and Evaluation of Its Antioxidant and Antibacterial Properties, *Oriental Journal of Chemistry*, Vol. 38(5), (2022), 1320-1327.
3. R. Eshiba, A. P. Pascal Regis, R. Betsy Clarebel, S. Philomina Mary and J. K. Alphonsa, Influence of Aloe vera Extract on Corrosion Inhibition of Mild Steel in Well Water, *RETELL (Research Teaching Learning Letters, An inter-disciplinary Research Journal)*, Vol. 15, December 2016.
4. R Eshiba, A Peter Pascal Regis, C Rajarathinam, R Betsy Clarebel, S Philomina Mary, JK Alphonsa Juliet Helina, Inhibitive Properties of Sodium Molybdate-Zn 2 System and its Synergism with Garlic Extract, *RETELL (Research Teaching Learning Letters, An inter-disciplinary Research Journal)*, Vol. 15, December 2015.
5. S Philomina Mary, A Peter Pascal Regis, Kinetic And Mechanistic Investigation On The Oxidation Of Pentoxifylline Drug By Amine  $\mu$ -Peroxo Cobalt(III)Complex In Aqueous Medium, *Journal of Natural Remedies*, Vol. 21, No.9(1), (2021) ISSN-: 2320-3358.
6. S Philomina Mary, A Peter Pascal Regis, Oxidation Kinetics And Mechanistic Study On L-Leucine By Amine  $\mu$ -Peroxocobalt(III)Complex In Aqueous Medium, *Journal of Natural Remedies*, Vol. 21, No.9(1), (2021) ISSN-: 2320-3358
7. S Philomina Mary, A Peter Pascal Regis, Kinetic Investigation On The Oxidation Of Calcium Lactate Drug By Amine  $\mu$ -Peroxocobalt(III)Complex In Aqueous Medium, *Proteus Journal*, VOLUME 11 ISSUE 12 2020, ISSN/eISSN: 0889-6348.
8. S Philomina Mary, A Peter Pascal Regis, Kinetic Study On The Oxidation Of L-Phenylalanine By Amine  $\mu$ -Peroxo Cobalt(III) Complex In Aqueous Medium, *High Technology Letters*, Volume 26, Issue 12, 2020, ISSN NO : 1006-6748.
9. Philomina Mary S, Peter Pascal Regis A, Biological Oxidation Of Paracetamol By Amine

$\mu$ -Peroxo Complex In Aqueous Medium – A Kinetic Approach, *International Journal of Research and Analytical Reviews*, Volume 6 Issue 2 May 2019, ISSN 2348-1269.

10. Philomina Mary S, Peter Pascal Regis A, A Kinetic approach on the oxidation of L-Proline by amine  $\mu$ -peroxo complex in aqueous medium, *Journal of Emerging Technologies and Innovative Research*, August 2018, Volume 5, Issue 8, ISSN 2349-5162.
11. Philomina Mary S\*, Peter Pascal Regis A, A Potentiometric study on lysine using amine  $\mu$ -peroxo Co(III) complex in aqueous medium, *International Journal of Scientific Research and Review*, Volume 7, Issue 10, (2018), ISSN 2279-543X

### ***Papers Presented in Conferences***

1. Awarded Second prize for presenting poster in the International Conference on Frontiers in Advanced Materials and their Applications, 2017, Bishop Heber College, Trichy.
2. Presented a paper in the 4<sup>th</sup> International Conference on Chemical and Environmental Research, 2018, Jamal Mohammed College, Trichy.
3. Presented a paper in the National Conference on NCETBP-2014, Holy Cross College, Trichy.
4. Presented a paper in the National Conference on Advanced Materials in Chemistry, 2018, St. Joseph's College, Trichy.

### ***Responsibilities held***

1. Organized various events in the department.
2. Department Incharge for Fine Arts in the year (2020-2024).
3. Certificate for serving as a Class representative, (2010-2011), Holy Cross College, Trichy.
4. Certificate for serving as a Leader in Red Ribbon Club, (2010-2012), Holy Cross College, Trichy.
5. Certificate for serving as a Secretary in Chemistry Association, (2012-2013), Holy Cross College, Trichy.

### ***Awards and Medals Received For Academic & Co-Curricular Excellence***

1. Received management prize for I Rank in III semester, St. Joseph's College, Trichy.
2. Received many prizes in Essay writing, Quiz competition, Elocution, Dancing, Singing and Drawing.
3. Shinned in Sports and received prizes in Throw ball, Kabadi, Tennikoit, Tennis and Relay.

### ***Virtual - Seminar/ Workshop/ Conference Attended***

<b>S.N O</b>	<b>SEMINAR/ WEBINAR/WORKSHOP/ CONFERENCE WITH THE TOPIC</b>	<b>PARTICIPATED OR PRESENTED WITH THE TITLE</b>	<b>SPONSORED BY</b>	<b>PLACE AND DURATION</b>
1.	Webinar on Design, Synthesis and Electronic Modulation of Carbazole Embedded Macrocycles	Participated		St. Joseph's College (Autonomous), Trichy-2 (07.09.2023)
2.	International Webinar on Latest Research On Catalytic & Structural Study Of Organometallic Compounds And Nanomaterials	Participated	EduCare Taiwan	Kaohsiung Medical Univeristy, Taiwan. (03.07.2022)

3.	International virtual conference on Futuristic aspects of Sensors and Biosensors	Presented	-	Holy Cross College (Autonomous), Trichy (03.03.2022-04.03.2022)
4.	Photovoltaics in 360(Design to Implementation)	Participated		B. S. A Crescent Institute of Science and Technology, Chennai, (02.08.2021- 06.08.2021)
5.	National Seminar on "Recent Trends in Computational Chemistry"	Participated	Somaiya Trust	Somaiya Vidyavihar University, Vidyavihar (11.08.2021 & 12.08.2021)
6.	International Webinar on The Implementer Role of Chemical and Biological Sciences in Conflict Contrary to Covid-19	Participated	-	H.K.E Society's, ShriPrabhu Arts, Science And J. M. Bohra Commerce Degree College, Shorapur, Karnataka-India – 29.01.2021
7.	Online Certificate Course on National Level Webinar on 'Investment for Future'	Participated	-	St. Teresa's College (Autonomous), Ernakulam – 05.05.2020
8.	Online Faculty Development Programme on GChemPaint and LibreOffice Suite Writer	Participated	Spoken Tutorial Project, IIT Bombay, MHRD, Govt. of India	D.K.M. College for Women, Vellore, Tamil Nadu – 04.05.2020 to 10.05.2020
9.	Webinar on Crystallography and its Applications	Participated	-	Er.Perumal Manimekalai college of Engineering, Hosur - 635117 on 08-05-2020
10.	Webinar on Role Of Teachers In Teaching, Learning And Curriculum Enrichment With Modern Methodology	Participated	-	Maharashtra's Union Of Secular Teachers , Mumbai – 14.05.2020
11.	National live Webinar On Molecular Docking in Rational Drug Design	Participated	-	Annai College Of Arts And Science, Kumbakonam – 26.05.2020
12.	Faculty development webinar series on Andragogy of Online Teaching	Participated	-	Holy Cross College (Autonomous), Trichy 29.05.2020
13.	Webinar on Combat the Pandemic stress through Yoga	Participated	Sunrise foundation (IRCA)	Holy Cross College (Autonomous), 21.06.2020

14.	One week online International Faculty Development Program (FDP) on "Artificial Intelligence and IoT-Heuristic Transdisciplinary perspectives	Participated	-	Holy Cross College (Autonomous), 4th – 10th July 2020
15.	National Level Online quiz competition on Chem Quiz 2020	Participated	IQAC	SSR college of arts, commerce & science – 05-10-2020



