



St Thomas College, Kozhencherry

Established in 1953 | Reaccredited by NAAC with Grade A | ISO 9001:2015 Certified | ISO 21001:2018 Certified

Affiliated to Mahatma Gandhi University, Kottayam

www.stthomascollege.info

Kozhencherry P.O., Kerala State, Pincode: 689641 Phone: +91-9497445575, 0468-2214566

Faculty Profile

Dr. Cimi A. Daniel

Assistant Professor

Department of Chemistry

Mobile No. +91 9496565573

✉ cimiadaniel@stthomascollege.info



Personal Details

Date of Birth	30.05.1984
Nationality	Indian
Marital Status	Married
Permanent Address	Vadaayil House, Kavungumprayar P. O., Thiruvalla, Pathanamthitta, Kerala.

Higher Education

2014	Ph.D (Chemistry), Cochin University of Science and Technology, Cochin.
2004 – 2006	M.Sc Chemistry, School of Chemical Sciences, Mahatma Gandhi University, Kerala.
2001 – 2004	B.Sc Chemistry, Mahatma Gandhi University, Kerala.

Professional Position

05-11-2014 to present	Assistant Professor, Department of Chemistry, St Thomas College, Kozhencherry
-----------------------	---

Teaching Experience

2014 – Present	Postgraduate and Undergraduate students
----------------	---

Courses Taught

M.Sc	Organometallics and Nuclear Chemistry
	Molecular Spectroscopy
	Chemical Kinetics and Surface Chemistry
	Instrumental Methods of Analysis
B.Sc	Solid State
	Chemical Kinetics
	Phase equilibrium
	Atomic Structure and Chemical Bonding

Professional Service Rendered

- 5th November 2014 to till date Assistant Professor, Department of Chemistry, St.Thomas College, Kozhencherry
- 15 October 2020 to till date HoD in Charge, Department of Chemistry
- AY 2021-22'to AY 2022-'23 Coordinator, Minority Cell
- AY 2017-'18 to AY 2018-'19 Member, Counseling and Orientation Committee
- Member, Counseling and Orientation Committee
- Additional Examiner, M.Sc. and B.Sc. Degree Examinations held under Mahatma Gandhi University

Other Important Responsibilities/Positions Held

- Participated in the Question Bank Upgradation Initiative of Mahatma Gandhi University, Kottayam and Contributed to the Question Bank of IV th Semester PG CSS Analytical Chemistry

Awards and Achievements

- January 2014 The best poster award for reaction over metal modified ceria-zirconia catalysts” International Research Conference on advanced techniques in chemistry (IRCATC-2014) Department of Chemistry, St. Albert’s College, Ernakulam.
- October 2012 Awarded Basic Scientific Research (BSR) Fellowship

Research Experience

- Research Scholar (Full time)** Department of Applied Chemistry, Cochin University of Science and Technology. (2009 -2014) Guide: Dr Sugunan S., Professor(Rtd.), Department of Applied Chemistry, Cochin University of Science and Technology
Title of Thesis: SYNTHESIS, CHARACTERIZATION AND CATALYTIC ACTIVITY OF NANOCRYSTALLINE CERIA MODIFIED WITH ZIRCONIA
- Project Assistant**, IRELTD project entitled "Catalysis by nanocrystalline ceria modified with transition metals"

Areas of Specialization and Interest

- Catalysis
- Nanomaterials
- Chemical Kinetics
- Surface Chemistry

Research Publications

- Inherent Reactivity of Praseodymium-Modified Ceria-Zirconia Catalysts for Oxidation of Soot**, Cimi A. Daniel*, Reni George and S.Sugunan, Malaysian Journal of Chemistry, 2021, Vol. 23(3), 42-54
- “Cerium zirconia mixed oxides prepared by hydrothermal templating method for the oxidation of ethyl benzene”** Cimi A. Daniel, S. Sugunan, Bulletin of Chemical Reaction Engineering and Catalysis 8 (2013) 97.

Research Publications (continued)

- “Surfactant-assisted hydrothermal synthesis of ceria-zirconia nanostructured materials for catalytic applications” Cimi A. Daniel, S. Sugunan, IOSR Journal of Applied Chemistry 5 (2013) 23.

Paper Presentations

- Cimi A. Daniel, S. Sugunan, “A comparative study of transesterification reaction over metal modified ceria zirconia catalysts” International Research Conference on advanced techniques in chemistry (IRCATC-2014) Department of Chemistry, St. Albert’s College, Ernakulam, January 2014.
- Cimi A. Daniel, S. Sugunan, “A comparative study of ethyl benzene oxidation reaction over ceria zirconia supported catalysts” National conference on Emerging Technologies for the Processing and Utilization of Beach Sand Minerals (Reaindia), March 1-2, 2013
- Cimi. A. Daniel, S. Sugunan, “Catalytic efficiency of modified ceria zirconia catalyst towards the transesterification reaction” National Seminar on Nanoscience and Technology, Sree Narayana Gurukulam College of Engineering, Kolenchery, Feb 2013
- Cimi A. Daniel, S. Sugunan “Comparison of catalytic activity over different compositions of ceria zirconia prepared by hydrothermal templating method” “Current Trends in Chemistry” (CTriC-2012); Department of Applied Chemistry, Cochin University of Science and Technology, Cochin, January 2012
- Cimi A. Daniel, S. Sugunan “Catalytic performance of ceria zirconia in liquid-phase oxidation of ethyl benzene with tert-butyl hydro peroxide” Current Trends in Chemistry (CTriC-2011), Department of Applied Chemistry, Cochin University of Science and Technology, Cochin, March-2011
- Cimi A. Daniel, S. Sugunan “Catalytic efficiency of ceria–zirconia material for the oxidation of hydrocarbons” 20th national symposium on Catalysis for energy conversion and conservation of environment, Indian Institute of Technology, Chennai, Dec 2010
- Cimi A. Daniel, S. Sugunan “Oxidation of benzene to phenol by ceria-zirconia as heterogeneous catalyst” International congress on analytical science (ICAS2010) Kochi, Nov 2010
- Cimi A. Daniel, S. Sugunan “Preparation, characterization and catalytic activity studies of transition metal modified ceria-zirconia” International Conference on Materials for the Millenium (Mat-Con2010) Department of Applied Chemistry, Cochin University of Science and Technology, Cochin, Jan 2010
- Cimi A. Daniel, S. Sugunan “Synthesis of transition metal modified cerium-zirconium mixed oxides by hydrothermal templating method” 22nd Kerala Science Congress, KFRI, Peechi, Jan 2010

Project Guidance

- Guided M.Sc and B.Sc. projects

Faculty Development Programmes Attended

- | | |
|--------------------|--|
| 17-31 May 2021 | ■ Faculty Development Programme on Research Methodology and Data Analysis, Teaching Learning Centre, Ramanujan College University of Delhi. |
| 7- 13 October 2020 | ■ Faculty Development Programme on Instrumental methods of Analysis, Guru Angad Dev Teaching Learning Centre, S.G.T.B. Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of MHRD and Bishop Moore College, Mavelikara. |

Faculty Development Programmes Attended (continued)

- 9 - 15 September 2020 Research ethics and characterisation Techniques in Materials Science, Guru Angad Dev Teaching Learning Centre, S.G.T.B. Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of MHRD and Bishop Moore College, Mavelikara
- 7 - 14 September 2020 Faculty Development Programme on R, Mar Thoma College, Thiruvalla [course material provided by Spoken Tutorial Project, IIT Bombay.
- 16 February 2020 Online Refresher Course In Chemistry For Higher Education (SWAYAM ARPIT ONLINE COURSE CERTIFICATION), Sri Guru Tegh Bahadur Khalsa College, University of Delhi
- 5 - 18 December 2019 Faculty development programme Refresher Course-Winter School (Multidisciplinary), UGC-HRDC, University of Kerala
- 1 - 28 th March 2018 Faculty development programme - Orientation Programme UGC-HRDC, Kannur University

Recent Seminars/ Conferences/ Workshops Attended

- 17th- Nov to 8th- Dec 2008. Orientation Programme in catalysis Research, IIT Chennai.
- 25th- April 2009 Workshop on applications of mass spectrometry and related hyphenated techniques in analytical science, Indian society of analytical scientists [ISAS].
- 24th- November 2010 Workshop on molecular probes – technology and applications, ISAS/Kochi.

Recent Seminar/Conferences/Workshops Organized

- Coordinator, "Intellectual Property Awareness Programme" under National Intellectual Property Awareness Mission on 20 th July 2022.
- Coordinator, "Entrepreneurial Training Programme for Scheduled Caste Communities to produce Digital Thermometers" from 16-03-2022 to 22-03-2022 in association with IHRD and CMET .
- Organized webinar on 'Be Proactive' by Dr.P.V.Joseph, Associate Professor(Rtd.), Motivational Speaker on 28 th June 2021.
- Organized Webinar on "Life skills and character" by Dr. Vinod, Assistant Professor, NSS College, Pandalam on 25th March 2021
- Organized Webinar on "Research methodology and research ethics" Dr.Litty Joseph, Assistant Professor, Kuriakose Elias College, Mannanam, Kottayam on 22nd February 2021.

Skills

- Languages known English, Malayalam, Hindi.
- Coding R, C