


ST GREGORIOS COLLEGE, KOTTARAKARA

FACULTY PROFILE

NAME	DR. FRANCIS CHACKO		
DEPARTMENT	CHEMISTRY		
DESIGNATION	HEAD & ASSISTANT PROFESSOR		
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ACADEMIC QUALIFICATIONS (with name of degree awarding University)	MSc., PhD PhD. (University of Kerala) BEd (University of Kerala) MSc. (University of Kerala) BSc. (University of Kerala) Diploma in Polymer Technology (Board of Technical Education, Kerala)		
TEACHING EXPERIENCE	8 Years		
SPECIALIZATION	ELECTROCHEMISTRY		
PUBLICATIONS/ PARTICIPATION IN SEMINARS/ CONFERENCES ETC (Please attach a separate detailed list with titles of papers, names of conferences, etc)		INTERNATIONAL	NATIONAL
	NO. OF RESEARCH PAPERS IN JOURNALS	8	0
	NO. OF PUBLICATIONS IN CONFERENCE PROCEEDINGS	5	4
	NO. OF CONFERENCES PARTICIPATED IN	5	4
PROJECTS	NIL		
DETAILS OF RESEARCH SUPERVISION	NIL		
HONOURS AND AWARDS	<p><i>Awarded the CSIR Senior Research Fellowship, 2008</i></p> <p><i>Scholar section best paper award on 14th National Convention of Electrochemists, SAEST, December 2007, IGCAR, Kalpakkam, Tamil Nadu, India.</i></p> <p><i>AIACHE award for the best student, 2004</i></p> <p><i>Rev.Fr. Alphonse Thundiyl Scholarship for the top scorer in BSc, 200(At Fatima Mata National College)</i></p>		

POSTS HELD	
ANY OTHER INFORMATION	NIL
PHOTO (Please copy and paste the photograph you would like to have as your profile image)	

Papers in Seminars/Conferences

- ***“Development and characterization of organoclay filled polyetherimide nanocomposites for anticorrosive coatings”*** International Conference on Energy and Environment (ICEE 2k19) December 2019, T.K.M. College of Arts & Science, Kollam
- ***“Development of a facile natural approach for the synthesis of Carbon Quantum Dots using Peanut shell and its Characterization”*** International Conference on Sustainable Innovations in Green Chemistry & New Technological Developments (ICSIG-2018), December 2018, Maharajas College, Ernakulum
- ***“A Study on Spectral, Morphological and Optical Properties of Ag-Doped Carbon Black”*** National Conference on Frontline Approaches in Material Science & Computational Chemistry (MATCOM-2018), March -2018, Sree Narayana College For Women, Kollam
- ***“Adsorption of Cu²⁺ on Amino functionalized Silica Gel”***, National seminar on Chemical Applications of Spectroscopic Techniques (NSCAST-2015), February -2015, Sree Narayana College, Punalur
- ***“CeO₂-TiO₂ mixed-oxide incorporated high performance hot dip zinc coating”***, International Conference on Recent Advances in Industrial Electrochemical Science and Technology (ICRAIEST-2009), November 2009, Mangalore University, Karnataka, India.
- ***“Assembling of bio mineralized MnO₂ based cathode and Al-alloy anode for microbial fuel cell operation”***, International Conference on Electrochemical Power Systems (ICEPS-2008), SAEST, November 2008, Thiruvananthapuram, Kerala, India.
- ***“Synthesis and application of nano CeO₂ for the improvement of hot dip galvanic coating”***, National Conference on Emerging Materials and Technologies for India-2020 (EMT-INDIA 2020), January 2008, NIT, Thiruchirappally, Tamil Nadu, India.

➤ “*Development and evaluation of the phase structure and barrier protection characteristics of ceria incorporated hot dip galvanic coating*”, 14th National Convention of Electrochemists, SAEST, December 2007, IGCAR, Kalpakkam, Tamil Nadu, India. (*Scholar section best paper award*)

➤ “*Development of nano RuO₂ composite based nickel coating for Electrochemical applications*”, International Conference on Electro analytical Chemistry and Allied Topics (ELAC 2007), March 2007, Shilon Bagh, Shimla, India.



Publications

➤ Darris, M. S., Priyanka S. Shaji, **Francis Chacko.**, Hydrophobic Mineral Pigment by Surface Engineering, *Int. Nationanal J. For Innovative Research in Multidisciplinary Field* 5(2019)18-21

➤ Jancy John., Raji Mary Mathew., Titu Thgomas., Rani Abraham., I. Rajeena., R. Jayakrishnan., Francis Chacko, Vinoy Thomas., *Tunable light emission using crystalline carbon dots*, *J. Opt.* 48 (2019)288-293.

➤ Ajith James Jose., M. Algar., Francis Chacko., *Development and characterisati of organo fluorohectorite polyethersulfone nano composites for high performance applications.*, *Appl. Clay. Sci.*71 (2013) 64-72.

➤ Shibli, S. M. A., **Francis Chacko.**, CeO₂-TiO₂ mixed oxide incorporated high performance hot dip zinc coating, *Surface and Coatings Technology* 205 (2011) 2931-2937

➤ Shibli, S. M. A., **Francis Chacko.**, Development of nano TiO₂ incorporated phosphate coatings on hot dip zinc surface for good paintability and corrosion resistance, *Applied Surface Science*, 257 (2011) 3111-3117

➤ Shibli, S. M. A., **Francis Chacko.**, Divya, C., Al₂O₃-ZrO₂ mixed oxide composite incorporated aluminium rich zinc coatings for high wear resistance, *Corrosion Science* 52 (2010) 518-525 (Elsevier).

➤ Shibli, S. M. A., **Francis Chacko.**, Development of nano CeO₂-incorporated high performance hot dip zinc coating, *Surface and Coatings Technology* 202 (2008) 4971-4975.

➤ Shibli, S. M. A., **Francis Chacko.**, Nano ZrO₂-incorporated hot dip zinc coatings for efficient mechanical properties and enhanced corrosion resistance, *Surface and Coatings Technology*, Elsevier (Communicated).