


## ST GREGORIOS COLLEGE, KOTTARAKARA

### FACULTY PROFILE

NAME	Dr. Remya R		
DEPARTMENT	Chemistry		
DESIGNATION	Assistant Professor		
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ACADEMIC QUALIFICATIONS (with name of degree awarding University)	MSc, Bed, Mphil, PhD (Kerala University)		
TEACHING EXPERIENCE	6 Years		
SPECIALIZATION	Material Science , Nanochemistry & 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	06	
	NO. OF PUBLICATIONS IN CONFERENCE PROCEEDINGS	06	
	NO. OF CONFERENCES PARTICIPATED IN	10	03
PROJECTS			
DETAILS OF RESEARCH SUPERVISION	NO OF STUDENTS AWARDED PHD NO. OF STUDENTS WITH SUBMITTED DISSERTATIONS NO. OF CURRENT STUDENTS:		
HONOURS AND AWARDS	CSIR Senior Research Fellowship (2010) Best Poster Award (International Conference on Sustainable innovations in Green Chemistry and new technological Developments ICSIG-2018, Dept.of Chemistry, Maharajas College Ernakulam)		
POSTS HELD			
ANY OTHER INFORMATION			
PHOTO (Please copy and paste the photograph you would like to have as your profile image)			

## PUBLICATIONS

- a) P. Jineesh, T. C. Bhagya, **R. Remya**, S.M.A. Shibli, Photocatalytic hydrogen generation by WO<sub>3</sub> in synergism with hematite-anatase heterojunction, International journal of hydrogen energy, Elsevier Science, Vol. 45, 2020, 18946-18960
- b) S.M.A. Shibli, B.N Meena, **R. Remya**, A review on recent approaches in the field of hot dip zinc galvanizing process, Surface and Coatings Technology, Elsevier Science, Vol. 262, 2015, 210-215.
- c) S.M.A. Shibli, **R. Remya**, K.S Chinchu, Nano-ZnO incorporated titania composite coating for orthodontic applications, Materials Research Innovations, Maney Publisher, Vol. 16 , 2012, 186-197.
- d) Vinod Krishnan, Anand Krishnan, **R. Remya**, K.K Ravikumar, S. Asha Nair, S.M.A Shibli, H.K Varma, K. Sukumaran, K. Jyothindra Kumar, Development and evaluation of two PVD-coated  $\beta$ -titanium orthodontic archwires for fluoride-induced corrosion protection, Acta Biomaterialia, Elsevier Science, Vol. 7, 2011, 1913-1927.
- e) S.M.A. Shibli, A.C Jayalekshmi, **R. Remya**, Electrochemical and structural characterization of the mixed oxides-reinforced hot-dip zinc coating, Surface and Coatings Technology, Elsevier Science, Vol. 201, 2007, 7560-7565.
- f) S.M.A. Shibli, **R. Remya**, A.A Beevi, Electrochemical characterisation of process of ruthenium based surface activation for electroless nickel plating, Transactions of the Institute of Metal Finishing (Institute of Metal Finishing, U.K) Vol. 85, 2007, 147-152.

### **Book Chapter**

- a) **R. Remya**, Francis Chacko, S.M.A. Shibli, Nano NiO-RuO<sub>2</sub> mixed oxide incorporated Catalytic Ni-P Composite Coating for Hydrogen evolution Reaction/Research Perspectives in Chemistry for sustainable development, Excel India Publishers, 91 A, Ground Floor, New Delhi, 2020 (ISBN 978-93-89947-01-4).

## International Conferences

- a) **R. Remya**, Francis Chacko, S.M.A. Shibli, Nano  $\text{Fe}_2\text{O}_3$  – $\text{RuO}_2$  mixed oxide incorporated catalytic Ni-P composite coating for hydrogen evolution reaction, International Conference on Emerging Frontiers in Chemical Sciences (EFCS-2019), December 2019, Dept.of Chemistry, Farook College Kozhikode
- b) **R. Remya**, Francis Chacko, S.M.A. Shibli, Nano  $\text{NiO}$  – $\text{RuO}_2$  mixed oxide incorporated catalytic Ni-P composite coating for hydrogen evolution reaction, International Conference on Sustainable innovations in Green Chemistry and new technological Developments (ICSIG-2018), December 2018, Dept.of Chemistry, Maharajas College Ernakulam (**Best Poster Award**)
- c) **R. Remya**, Jisho J Panicker, S. Manoj, Synthesis and characterization of tungstate supported on to nano zirconia synthesized by sol-gel autocombustion method, International Conference on Advanced Functional Materials , (ICAFM-2018), October 2018, Department of Chemistry, SB College, Changanassery, Kerala.
- d) S. Manoj, , **R. Remya**, Synthesis and characterization of tungstate supported on to nano zirconia synthesized by sol-gel autocombustion method, International Conference on Advanced Functional Materials , (ICAFM-2018), October 2018, Department of Chemistry, SB College, Changanassery, Kerala.
- e) S.M.A. Shibli, **R. Remya**, Meena B Nair, K.S. Chinchu, Enhancement of electrocatalytic activity of  $\text{RuO}_2$  by nano  $\text{Fe}_2\text{O}_3$  for electrochemical hydrogen generation, International Conference on Functional Advanced Materials , (ICFAM-2014), February 2014, Trivandrum, India.
- f) S.M.A. Shibli, **R. Remya**, Enhancement of electrocatalytic activity of  $\text{RuO}_2$  by nano  $\text{NiO}$  for electrochemical hydrogen generation, International Conference on Molecular Spectroscopy of Advanced Materials & Biomaterials, (IMSAB-2012), August 2012, Mavelikara, India.
- g) S.M.A. Shibli, **R. Remya**, S.Sajith, K.S.Chinchu, K.Anilkumar, Development of  $\text{MnO}_2$  supported nano  $\text{RuO}_2$  incorporated catalytic Ni-P composite coatings for hydrogen evolution reaction, International Conference on Vistas in Chemistry, ( ICVC-2011 ), October 2011, Kalpakkam, India.

- h) S.M.A. Shibli, Anupama V Raj, K.K. Binoj, **R. Remya**, S.R. Archana, Development of nickel coated zirconia incorporated hot-dip zinc coating, Proceedings of International Conference on Corrosion, (CORCON), September 2011, (NACE), Mumbai, India.
- i) S.M.A. Shibli, Francis Chacko, **R. Remya**, K. Anilkumar, J.N. Sebeelamol, CeO<sub>2</sub>-TiO<sub>2</sub> mixed oxide incorporated high performance hot-dip zinc coatings, Proceedings of International Conference on Recent Advances in Industrial Electrochemical Science and Technology (ICRAIEST-2009), November 2009, Mangalore, India.
- j) S.M.A. Shibli, **R. Remya**, Development of nano CeO<sub>2</sub> incorporated Al anode for metal air batteries, International Conference on Energy and Power Systems, (ICEPS-2008), SAEST, November 2008, Trivandrum, India.

#### **National Conferences**

- a) S.M.A. Shibli, K.S. Chinchu, P.S. Arun, **R. Remya**, Anupama V Raj, S. Sajith, Electrochemical evaluation of the corrosion resistance properties of the electroless Ni-P/W coatings, National Seminar on Frontiers in Chemistry, (NSFC-2012), April 2012, Department of Chemistry, Kariavattom, Trivandrum.
- b) S.M.A. Shibli, **R. Remya**, S. Sajith, J.N. Sebeelamol, Development of CeO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub> mixed oxide incorporated Al anode for metal air batteries, National Seminar on Recent Trends in Chemical Sciences: Frontiers and Challenges, (RTCSFC-2011), August 2011, Department of Chemistry, Kariavattom, Trivandrum.
- c) HEAM Scientist 2013 – National seminar of young scientists of Hydrogen Energy and Advanced Materials, December 2013, Department of Chemistry, Kariavattom, Trivandrum.
- d) **Workshops attended** –
  - 1) Workshop on Practicals in Chemistry conducted on 17.01.2015 at Fatima Mata National College, Kollam organised by Academy of Chemistry Teachers, Kerala.
  - 2) Seminar on Spectroscopic techniques for organic and inorganic molecules on 28/02/2015 at Govt. Arts College Trivandrum by Academy of Chemistry Teachers.

- 3) Seminar on Atmospheric Ozone and Climate change on Sep 16 2015 by Department of Chemistry St. Gregorios College Kottarakara (funded by KSCSTE).
- 4) Workshop on Practicals in Chemistry BSc (S4) and MSc (S4) on 10/10/2015 at Fathima Matha National College Kollam by Academy of Chemistry Teachers.