

Biodata

Name : Dr. P. A. Soloman
Designation : Professor in Chemical Engg.
Institution : Government Engineering College, Thrissur
Date of joining : 11-9-1998
Additional responsibilities : Dean- Research, QIP coordinator, Chairman-BoS-Chemical, University of Calicut



Educational Qualifications

1. B. Tech degree in Chemical Engineering from Government Engineering College, Thrissur in 1996 with University first rank
2. M.Tech in Chemical Engineering from IIT Madras in 2003
3. Ph. D in Chemical Engineering from Anna University, Chennai in 2011

Professional Experience

1. Industrial: 10 years in FACT Ltd., Udyogamandal, Kerala in operating Chemical plants
2. Teaching: 18 years in Various Government Engineering Colleges in Kerala

Research Publications

1. In international journals: 13
2. In international Conferences: 14
3. National conference: 3

Research activities

External funded research project: "Removal of oil in from produced water using combined electrochemical- compact flotation method" for RavenTechnology Pvt. Ltd., United Kingdom.

Ph.D being guided: Five

Area of Interest

1. Computing using *MS Excel* and *Matlab*
2. Process simulation using *Aspen Hysys* and *Honeywell unisim*
3. Process Optimisation

Details of Publications of Dr. P. A. Soloman, Professor in Chemical Engineering, Government Engineering College, Thrissur as on January 2017.

In international journals: Thirteen (list given below)

1. Anju Sunny, **P A Soloman**, K Aparna, "Syngas production from regasified liquefied natural gas and its simulation using Aspen HYSYS", *Journal of Natural Gas Science and Engineering*, 30 (2016) 176-181
2. P.A.Fasnabi. G.Madhu, **P.A.Soloman**, 'Optimization of Advanced Oxidation Processes for the Removal of Acetamiprid from Wastewater', *Environmental Engineering and Management Journal*, accepted in July 2014.
3. Puthenkattil Abdukunji Fasnabi, Gopal Madhu, **Pooppana Antony Soloman**, "Removal of Acetamiprid from Wastewater by Fenton and Photo-Fenton Processes – Optimization by Response Surface Methodology and Kinetic Study", *Clean Soil, Air, Water*, 2016, 44 (9999) 1-10.
4. A. Ramesh, G.Madhu, **P.A.Soloman**, 'System Dynamic Model to Forecast CO2 emissions of Indian Cement Industries', *International Journal of Environmental Engineering and Management*, Volume 4, Number 1 (2013), pp. 33-47
5. **P.A.Soloman**, N. Balasubramanian, 'Optimization of Integrated Electro- Bio process for bleaching effluent treatment', *Ind. Eng. Chem. Res.*, 51, 8211–8221 (2012)
6. A. Ramesh, G.Madhu, **P.A.Soloman**, 'Energy technology policy and performance analysis- a cement industry perspective', *European Journal of Scientific Research*, 73 (1), 33- 40 (2012),
7. **P. A. Soloman**, C. Ahmed Basha, M. Velan, and N. Balasubramanian, 'Electro oxidation of Malachite Green and Modeling using ANN', *Chem. Biochem. Eng. Q.* 24 (4) 445–452 (2010)
8. C. Ahmed Basha, **P.A. Soloman**, M. Velan, Lima Rose Miranda, N. Balasubramanian, R. Siva, 'Electrochemical degradation of specialty chemical industry effluent', *Journal of Hazardous Materials* 176, 154–164 (2010).
9. **P. A. Soloman**, C. Ahmed Basha., M. Velan, N. Balasubramanian, and P. Marimuthu, 'Augmentation of biodegradability of pulp and paper industry wastewater by electrochemical pre-treatment and optimization by RSM', *Sep. Purif. Technol.*, 69, 109-117 (2009)
10. **P. A. Soloman**, C. Ahmed Basha., M. Velan, and N. Balasubramanian, 'Electrochemical degradation of pulp and paper industry waste-water', *J. Chem. Technol. Biotechnol.*, 84, 1303- 1313 (2009)
11. **P. A. Soloman**, C. Ahmed Basha., M. Velan, V. Ramamurthi, K.Koteswaran and N. Balasubramanian, 'Electrochemical Degradation of Remazol Black B Dye effluent', *Clean*, 37 (11), 889- 900 (2009)
12. C. Ahmed Basha, **P.A. Soloman**, M. Velan, N. Balasubramanian and L. Roohil Kareem. 'Participation of Electrochemical Steps in Treating Tannery Wastewater', *Ind. Eng. Chem. Res.*, 48, 9786- 9796 (2009)

13. R. Saravanathamizhan, **P. A. Soloman**, N. Balasubramanian and C. Ahmed Basha, 'Optimization of In-situ Electro-oxidation of Formaldehyde by the Response Surface Method', Chem. Biochem. Eng. Q., 22 (2), 213- 220 (2008)

In international conferences: fourteen (list given below)

1. **P.A.Soloman**, D.V.S.Murthy, "Studies in treatment of sulphite pulping liquor in upflow anaerobic contact filter", International conference on Chemical and bioprocess Engineering, 27-29 August 2003, Universiti Sabah, Kota Kinabalu, Malaysia.
2. Francis John V, Abmily Mechoor, Rahna K Rathnan and **P.A.Soloman**, "Production of Bacterial cellulose and cellulase enzyme using wastepaper hydrolysate and coconut water as dual cheap Carbon sources " in the international conference on Materials for future coordinated by Government Engineering College, Thrissur from 6th to 8th November 2013
3. Vimalkumar and **P.A.Soloman**, "Neural network based online estimation of valve dead band and stiction" in the international conference on Materials for future coordinated by Government Engineering College, Thrissur from 6th to 8th November 2013
4. Sumayya.V, Manilal.A.M and **P. A. Soloman**, "Removal of oil from produced water using electro-coagulation method " in the international conference on Materials for future coordinated by Government Engineering College, Thrissur from 6th to 8th November 2013.
5. Anju Sunny and **P.A.Soloman**, "Revamping of Ammonia plant with R-LNG and simulation of Syngas production using Aspen HYSYS" in the international conference on Materials for future coordinated by Government Engineering College, Thrissur from 6th to 8th November 2013.
6. Jinish.K, Manilal. A.M, **P.A.Soloman**, "CFD Simulation of oil water separator", International Conference on waste management and sustainable development 21-23 March 2014, NSS Palakkad.
7. Soumya S Nair, **P A Soloman**, "Mathematical Modelling, Simulation & Control of Liquid Level in Storage Tanks of Varying Cross Section Using Advanced Controllers", Int. Conf. on Advances in Chemical Engineering and Technology, ICACE TKMCE '14 (186–189)
8. Harinarayanan Namboothiri, Manilal A M, **P A Soloman**, Control of Electrocoagulation batch reactor for oil removal from automobile garage wastewater, International conference on Advances in Chemical Engineering, Dec 9-11, 2015.
9. Sminu John, **P A Soloman**, Fasnabi P A, Study on removal of acetamiprid from wastewater by electrocoagulation, International conference on Advances in Chemical Engineering, Dec 9-11, 2015.
10. Divya A H, **P A Soloman**, Effects of some water quality parameters especially total coliform and fecal coliform in surface water of Chalakudy river, , International conference on Advances in Chemical Engineering, Dec 9-11, 2015.
11. Debasis Maharana, **P A Soloman**, Flameless catalytic LPG combustion and its optimization, International conference on Advances in Chemical Engineering, Dec 9-11, 2015.

12. Sari Thomas Maliyekkal, **P A Soloman**, Rejini V O, Preparation of Chitosan-CMC blends and studies on thermal properties, International conference on Advances in Chemical Engineering, Dec 9-11, 2015.
13. Agil Abraham Francis, **P A Soloman**, Rejini V O, Preparation of Chitosan-poly vinyl alcohol blends and studies on thermal and mechanical properties, International conference on Advances in Chemical Engineering, Dec 9-11, 2015.
14. Manilal. A. M, Harinarayanan Nampoothiri. M. G, **P.A.Soloman**, Removal of oil and grease from automobile garage wastewater using electrocoagulation, ,Proceedings of the 29th Symposium of Malaysian Chemical Engineers (SOMChE) 2016, Miri, Sarawak, Malaysia, December 1 – 3, 2016

In national conferences: Three (list given below)

1. Vimal Kumar V, **P.A.Soloman** “Neural network based online elimination of valve non-linearity” in the national conference on Advanced Trends in Chemical Engineering coordinated by the department of Chemical Engineering, Government Engineering College, Thrissur from 26 to 28 September 2013
2. Francis John V, Ambily Mechoor, Rahna K Rathnan and **P.A.Soloman**, “Bio-conversion of waste paper by co-cultures of fungi isolated from lignocellulosic waste” in the national conference on Advanced Trends in Chemical Engineering coordinated by the department of Chemical Engineering, Government Engineering College, Thrissur from 26 to 28 September 2013.
3. Soumya S Nair, **P A Soloman**, “Mathematical Modeling, Simulation & Control of Liquid Level of Nonlinear Tanks using Fuzzy Controller”, 2nd National Conference on Emerging Trends in Engineering - NET 2014, Page No. 261-266, coordinated by the department of Chemical Engineering, Government Engineering College, Kozhikode from 29 to 30 August 2014.