

Bahman Yari, PhD

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Education

 Sharif University of Technology, Tehran, Iran Department of Chemical and Petroleum Engineering <i>M.Sc. Degree, Chemical Engineering-Biotechnology</i> Thesis: "Monte Carlo Simulation of Immobilized Cell Systems" 	s"	(2002)
 Sharif University of Technology, Tehran, Iran 		(2000)
Department of Chemistry		
B.Sc. Degree, Applied Chemistry		
Thesis: "Synthesis of Phthalocyanine blue pigment"		
Research Interests		
Process design and optimization		
Stochastic modeling of chemical and biochemical processe	es	
Biotechnology		
Microbial induced corrosion		
Electrochemistry		
• Corrosion in heavy duty boilers and heat recovery steam	generators	
• Water and waste water treatment		
Regenerative and non-regenerative condensate polishing		
Dry colorimetry		
Instrumental chemical analysis		
 Development of new cathode materials for lithium ion bat 	tteries	
Pinch technology		
Chemical control of boilers and cooling towers		
Rotary kiln ball mill reactor design		
Work Experience		
• Automotive Partnership Canada project for scale up of	Research	2014-
LFP melt synthesis as lithium ion batteries' cathode	Associate	
Polytechnique Montreal, Montreal, QC, Canada		
• CI Analytics Inc. , Chambly, QC, Canada	Chemical	2013-2014
	applications	
	chemist	
Montazerghaem Power Generation Management	Chemistry	2008-2012
Company, Karaj, Alborz, Iran	and	
	environment	
	department	
	nead	

•	Montazerghaem Power Generation Management Company, Karaj, Alborz, Iran	Head of water laboratories and coating department	2005-2008
•	Bidco (Biotechnology development company) , Tehran, Iran	Business plan developper	2004-2005

Expertise

- Monte Carlo simulation
- Chemical and biochemical reactor design
- Design and operation of resin ion exchange demineralizers
- Design and optimization of regenerative and non-regenerative condensate polishing plants
- Chemical cleaning of boilers
- Instrumental chemical analysis
- Classical chemical analysis
- Extractive and in situ. Continuous emission monitoring
- Simulation with COMSOL

Research Background

- Production of viscous Ryon fibers for tire industry
- Synthesis of phthalocyanine blue pigment
- Synthesis of indigotin blue dye for textile industry
- Process design and pilot plant production of diphenyl methane
- Monte Carlo simulation of immobilized E-Coli bacteria in calcium alginate gells
- Assessment of microbial induced corrosion in Montazerghaem power plant
- Chemical control of cooling tower and boiler water
- Technical and economical assessment of transition from polyphsphate regime to phosphonate regime

Teaching Experience

• Industrial corrosion fundamentals Neka Power plant, Neka, Mazandaran, Iran	Instructor	2011
• English courses for employees,	Instructor	2007-2008
Montazerghaem Power Generation Management		
Company, Karaj, Alborz, Iran		

•	Biochemical engineering,		
	Sharif University of Technology, Tehran,Iran		

Teaching Assistant

2001, 2002

Journal Publications

- Yari, B.; Khorasheh, F.; Kheirolomoom A.; Chaouki, J.; "A Monte Carlo simulation of nutrient diffusion and reaction in immobilized cell systems"; Chemical Physics 01/2006; 321(1):34-40. DOI:10.1016/j.chemphys.2005.07.029 □1.65 Impact Factor
- Yari, B.; "Microbial induced corrosion, Recognition, Identification and Prevention"; Iranian corrosion journal, 2005

Conference Publications

- Yari B., Lorestani M., "Technical and economical assessment of chemical control transition in cooling towers of Montazerghaem power plant", 2nd Electric Power Generation Conference EPGC2, Tehran, Iran, 2010
- <u>Yari B.</u> "Microbial induced corrosion"; Iranian power plant chemistry seminar, Tabriz, East Azerbayjan, Iran, 2009