Alhamed, Yahia

Professor, Chemical and Materials Engineering Department, King Abdulaziz University

Education					
Degree	Field of Study	Institution	Year		
PhD	Chemical Engineering	University of Waterloo	1990		
MS	Chemical Engineering	University of Waterloo	1985		
BS	Chemical Engineering	King Saud University	1981		

Academic Experience

From	To	Institution	Rank	Title	Full or Part
					Time
1981	1982	King Abdulaziz University	Research assistant		
1982	1985	University of Waterloo	MS student		Full Time
1985	1990	University of Waterloo	PhD Candidate		Full Time
1990	1999	King Abdulaziz University	Assist. Prof.		Full Time
1999	2009	King Abdulaziz University	Assoc. Prof.		Full Time

Non Academic Industrial Experience (including Consultations)

From	To	Company/Entity	Title	Position	Full or Part
				Description (Brief)	Time

None

Funded Research Projects and Patents from the Past Five Years

- Gaber Edris, Abdulrahim Alzahrani, and Yahia Alhamed, Removal of Heavy Metals from Industrial Wastewater by Green Microalgae, Project funded by KACST, Project No. 27/ October 2010.
- 2. Yahia A. Alhamed, L. Petrov, Abdulrahim A. Alzahrani, Mohammad A. Daous, Hamad Almigrin and Ahamed K. Arafat, Catalyst Development for the Dehydrogenation of Propane to Propene, KACST, Project No. AR_29_320, 2010.
- Gaber Edris, Abdulrahim Alzahrani and Yahia Alhamed "Utilization of Microalgae for Enhanced CO₂ Sequestration in a Photobioreactor" – Project funded by Deanship of Scientific Research, King Abdulaziz University, Project No. 315/135/431, October 2011.
- 4. Gaber Edris, Abdulrahim Alzahrani and Yahia Alhamed "Treatment of Oilfield Produced Water by Rotating Biological Contactor: Pilot plant study" Project funded by Deanship of Scientific research, King Abdulaziz University, Project No. 315/137/431, October 2011.
- Waleed Alalayah, Gaber Edris, Abdulrahim Alzahrani and Yahia Alhamed, Biohydrogen production by Chlorella vulgaris in a solar flat plate bioreactor - Project funded by Deanship of Scientific research, King Abdulaziz University, Project No February 2014

Certifications and Professional Registrations

None

Current Membership in Professional Societies and Organizations

	Society/organization	Rank	Member Since
1.	American chemical Society	Member	
2.	Saudi Chemical Society	Member	

Honours and Awards

None

Institutional and Professional Services (administration, committees, units, etc.)

1. Coordinator of academic affairs committee at the Chemical and Materials Engineering Department. King Abdulaziz University

- 2. Member of the social committee for the Fourth Saudi Engineering Conference
- 3. Chairman of curriculum committee at the Chemical and Materials Engineering Department. King Abdulaziz University.
- 4. Head of the committee of SABIC chair in catalysis at KAU 2006 to date
- 5. Chairman Chemical & Materials Engineering department 2007 to date
- 6. Member of the Scientific Research and Technology unit of the Deanship of Scientific Research
- 7. Member of the permanent committee for promotions 2011 to date
- 8. Member of the higher committee of centres of excellence 2011 to date

Principal Publications/Presentations from the Past Five Years

- H. Zhang, Y. Alhamed, W. Chu, Z. Ye, A. Al-Zahrani, L. Petrov, Controlling cobalt-support interaction in Co/CNTs catalysts and catalytic performance for hydrogen production via ammonia decomposition, Appl. Catal. A: General, 464-465 (2013) 156-164.
- A.H. Elshazly, A.A. Al-Zahrani, Y.A. Alhamed, S.A. Nosier, "Effect of fixed bed characteristics on the performance of pulsed water flow humidification-dehumidification solar desalination unit", Desalination and Water Treatment, Vol. 51, Issue 4-6(2013) p. 863-871.
- Hossein Jafari, Haleh Tajadodi, Dumitru Baleanu, Abdulrahim A. Al-Zahrani, Yahia A. Alhamed, Adnan H. Zahed, "Fractional sub-equation method for the fractional generalized reaction Duffing model and nonlinear fractional Sharma-Tasso-Olver equation", Central European Journal of Physics, (2013) DOI: 10.2478/S 11534-013-0203-7.
- A.H. Elshazly, A.A. Al-Zahrani, Y.A. Alhamed, "Kinetics and Performance Analysis of Batch Electro coagulation Unit for the Removal of a Mixture of Phosphate and Nitrate Ions from Industrial Effluents", Int. J. Electrochem. Sci. 8 (2013) 3176 -3185.
- Hossein Jafari, Haleh Tajadodi, Dumitru Baleanu, Abdulrahim A. Al-Zahrani, Yahia A. Alhamed, Adnan H. Zahed," Exact Solutions of Boussinesq and KDV-MKDV equations by fractional sub-Equation method", Romanian Reports in Physics, Accepted for publication (2013).
- 6. H. Zhang, Y. Alhamed, Y. Kojima, A. Al-Zahrani, L. Petrov, Cobalt supported on carbon nanotubes: An efficient catalyst for ammonia decomposition, Compt. rend. Acad. bulg. Sci., 66, No 4, 2013, 519-524.
- 7. Y. Alhamed, K. Kumbilieva, A. Al-Zahrani, L. Petrov, Nanostructure effects on the kinetics and deactivation at reactions over multifunctional catalysts, Chem. Eng. Sci., 105 (2014) 77-91.
- 8. Muhammad Umar · Y. A. S. Alhamed · A. Alzahrani, "Residue Curve Map Determination and Synthesis of Ethyl*tert*-Butyl Ether via Reactive Distillation", Arab J Sci. Eng., DOI 10.1007/s13369-013-0937-y (2014)
- H. Zhang, Y. Alhamed, Y Kojima, A. Al-Zahrani, Hiroki Miyaoka, L. Petrov, Structure and catalytic properties of Ni/CNTs and Ni/AC catalysts for ammonia decomposition, International Journal of Hydrogen Energy, 39(2014) 277 -287.

Patent

- Y. Alhamed, A. Al Zahrani, M. Daous, K.M. El-Yahyaoui, Process of oxidative dehydrogenation using a boria-alumina catalyst, Pat. No. Appl.: US2010/0179358 A1.
- 2. L. Petrov, Y. Alhamed, A. Al Zahrani, M. Daous, M. Umar, M. Al-Hazmi, Platinum containing catalysts for propane dehydrogenation, EPA №12005440.8/26.07.2012.
- 3. L. Petrov, Y. Alhamed, A. Al Zahrani, M. Daous, M. Umar, M. Al-Hazmi, Alkane dehydrogenation catalyst and process for its preparation, EPA № 12006767.3/27-09-2012.
- 4. L. Petrov, Y. Alhamed, A. Arafat, A. Al Zahrani, M. Daous, M. Al-Hazmi, Gold containing catalysts for propane dehydrogenation, submitted.
- 5. H. Zhang, L. Petrov, Y. Alhamed, A. Al-Zahrani, M. Daous, M. Al-Hazmi, Mixed oxide catalysts for ammonia decomposition, submitted

Recent Professional Development Activities (Workshops, training, etc.)

None