

DR. Khan, Zubair Ahmed

Associate Professor, Dept.of Civil Engineering, King Abdulaziz University

Education

<i>Degree</i>	<i>Field of Study</i>	<i>Institution</i>	<i>Year</i>
PhD	Environmental Engineering	UST, Daejon, Korea	2007
MS	Environmental Science and Engineering	GIST, Gwangju, Korea	2000
MSc	Chemistry	KU, Karachi, Pakistan	1992
BSc	Mathematics, Chemistry, Physics	KU, Karachi, Pakistan	1989

Academic Experience

<i>From</i>	<i>To</i>	<i>Institution</i>	<i>Rank</i>	<i>Title (Chair, Coordinator, etc.)</i>	<i>Full or Part Time</i>
2008	2009	Hallym Univ., Korea	Assist. Prof.		Full time
2009	2010	Universiti Teknologi Malaysia	Sr. Lect.		Full time
2010	2012	King Abdulaziz University	Assist. Prof		Full time
2012	Date	King Abdulaziz University	Asso. Prof.		Full time

Non Academic Industrial Experience (including Consultations)

<i>From</i>	<i>To</i>	<i>Company/Entity</i>	<i>Title</i>	<i>Position Description (Brief)</i>	<i>Full or Part Time</i>
1993	1995	MIMA, Karachi, Pakistan	Tech. Offi.	Lab. Incharge	Full time
1995	1998	National Env. Consulting, Pak	Env. Cons.	Consultant	Full time
2000	2001	Gwangju Inst. Sci. & Tech.	Res. Assis.	Research	Full time
2001	2002	National Env. Consulting, Pak	Sr. Cons.	Environ. Consulting	Full time
2002	2007	Korea Institute of Sci. & Tech.	Assistant	Research during PhD	Part time
2007	2008	Sejong University, Seoul	PDF	Postdoc researcher	Full time

Funded Research Projects and Patents from the Past Five Years

1. Seed funding from Universiti Teknologi Malaysia on use of microalgae for treatment of palm oil wastewater, 2009-2010.
2. Strategic research project, King AbdulAziz City for Science and Technology KACST, "Fate of POPs in anaerobic/anoxic membrane bioreactors" 2012-2014

Certifications and Professional Registrations

Current Membership in Professional Societies and Organizations

<i>Society/organization</i>	<i>Rank</i>	<i>Member Since</i>
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Honors and Awards

1. "Academic Excellence Award" from Korea Institute of Science and Technology, International Research and Development Academy, August 2007

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

1. Academic advisor for 2 students, over last 2 years, 2009-present.

Principal Publications/Presentations from the Past Five Years

1. V. Ivanov, V. Stabnikov, Zubair Ahmed, S. Dobrenko, A. Saliuk, Production and applications of crude polyhydroxyalkanoate-containing bioplastic from the organic fraction of municipal solid waste, International journal of Environmental Science and Technology, in press (DOI:10.1007/s13762-014-0505-3), 2014
2. Mohamed Hasnain Isa, Ezerie Henry Ezechi, Zubair Ahmed, Saleh F Magram, Shamsul Rahman M Kuttya, Boron Removal by electrocoagulation and recovery, Water Research, 51, 113-123, 15 March 2014
3. Toor Umair Ali, Zubair Ahmed, Dong-Jin Kim, Estimation of N₂O emission during wastewater nitrification with activated sludge: Effect of ammonium and nitrite concentration by regression analysis, Journal of Industrial and Engineering Chemistry, In press (DOI: 10.1016/j.jiec.2013.10.042), 2014
4. JiHyeon Song, HyeongKyu Namgung, Zubair Ahmed, Biodegradation of toluene using Candida tropicalis immobilized on polymer matrices in fluidized bed bioreactors, Journal of Hazardous Materials, in press, 2012.
5. Zubair Ahmed, Sung-Min Kim · In S. Kim · Min-Soo Bum · Kyu-Jung Chae · Jin-Ho Joo, Yong Sik Ok and Sang-Eun Oh, Nitrification and denitrification using biofilters packed with sulfur and limestone at a pilot-scale municipal wastewater treatment plant, Environmental Technology, 33 (11), 1271-1278, 2012.
6. Zubair Ahmed, Effect of hydraulic retention time and influent substrate concentration on nutrient removal and membrane fouling in an anoxic/anaerobic-aerobic MBR, Asian Transactions on Engineering, 1(04), 2011.
7. Zubair Ahmed, JiHeyong Song, Removal of gaseous toluene using Immobilized Candida tropicalis in a fluidized bed bioreactor, 3 Biotech, 1:111-116, 2011.
8. Ki-Pal Kim, Zubair Ahmed, Kyung-Guen Song, Saleh F. Magram, Maged H. H. Daoud, Kyu-Hong Ahn, Ki-Jung Paeng, Adsorption of aluminum ion from water on Alginate-Modified Polyurethane, Journal of Chemical Engineering of Japan, 44(3), 2011
9. Zubair Ahmed; Sun-Jin Hwang; Seung-Kyu Shin; JiHyeon Song, Enhanced Toluene Removal using Granular Activated Carbon and a Yeast Strain Candida tropicalis in Bubble Column Bioreactors, Journal of Hazardous Materials, 176, p 849-855, 2010
10. Ki-Pak Kim, Zubair Ahmed, Kyu-Hong Ahn and Ki-Jung Paeng, Biodegradation of two model estrogenic compounds in a pre-anoxic/anaerobic nutrient removing membrane bioreactor, Desalination, 243, p 265-272, 2009.
11. Ki-Pal Kim, Kyung-Guen Song, Zubair Ahmed, Kyu-Hong Ahn, Ki-Jung Paeng, Enhancement of phosphorous removal in a polyurethane compressible media filtration system with coagulation, Journal of Chemical Engineering Japan, 41, No6, p 525-530, 2008
12. Zubair Ahmed, Jinwoo Cho, Byung-Ran Lim, Kyung-Guen Song, Ki-Pal Kim, and Kyu-Hong Ahn, Biological nitrogen and phosphorus removal and changes in microbial community structure in a membrane bioreactor: Effect of different carbon sources, Water Research, 42(1-2), p198-210, January 2008.
13. Zubair Ahmed, Jinwoo Cho, Byung-Ran Lim, Kyung-Guen Song and Kyu-Hong Ahn, Effects of sludge retention time on membrane fouling and microbial community structure in a membrane bioreactor, Journal of Membrane Science, 287(2), p 211-218, 15 January, 2007.

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

AAU/ASU Workshops