

# *Khondkar Ayaz Rabbani*

<b>Education</b>	<i>Ph.D. in Environmental Science and Engineering</i> Murdoch University Perth, WA, Australia	2015
	<i>Masters of Science Degree in Chemistry</i> University of Illinois at Urbana-Champaign, Champaign, IL, USA	2000
	<i>Honours Bachelors of Science Degree in Chemistry</i> University of Toronto, Toronto, ON, Canada	1997
	<i>International Baccalaureate Diploma (IB)</i> United World College of the Atlantic, Wales, U.K.	1992
	<i>GCSE O-Levels</i> Siddiqui's International School Dhaka, Bangladesh	1990
<b>Work experience</b>	Independent University Senior Lecturer School of Environmental Science and Management	2015- present 2002-2011
	<i>Duties include</i> - <i>teaching undergraduate and graduate courses in chemistry, environmental science, environmental chemistry, water pollution, air pollution, environmental management systems and environmental health</i> - <i>conducting research in environmental science and chemistry</i> - <i>in-charge for the development of the university environmental chemistry lab for teaching and research.</i>	
	Murdoch University Casual Academic staff	2012-2013
	<i>Employed as a teaching assistant to undergraduate chemistry courses. Duties included supervising and conducting undergraduate lab courses and assessing students' performance.</i>	

Aventis Pharma  
Management Trainee 2001-2002

*Management trainee at the pharmaceutical plant of Aventis Pharma at Gazipur, Bangladesh training in production, quality control and sales.*

Lab Support Inc.  
Validation Technician 2000 - 2001

*On placement at the Abbott Diagnostic Division in Abbot Laboratories. Responsible for validation of products according to the Quality System Regulation of the Food and Drug Administration. Validation initiator for common test method to the standards required by the current Good Manufacturing Practice (cGMP) regulations.*

### ***Publications***

Rabbani, K. A., W. Charles, A. Kayaalp, R. Cord-Ruwisch and G. Ho (2016). "Pilot-scale biofilter for the simultaneous removal of hydrogen sulphide and ammonia at a wastewater treatment plant." Biochemical Engineering Journal **107**: 1-10 2016

Rabbani, K. A., W. Charles, R. Cord-Ruwisch and G. Ho (2015). "Recovery of sulphur from contaminated air in wastewater treatment plants by biofiltration: a critical review." Reviews in Environmental Science and Biotechnology **14**(3): 523-534. 2015

Hasan, S., Rabbani, K. A., Rahman, M. L., Hossain M. A. (2012) Persistent Organic Pollutants and Pesticide Residues in Seasonal Waters of Rural Bangladesh; International Journal of Environment **2**(1): 41-47. 2012

Halim, M. A., S. M. Sumayed, R. K. Majumder, N. Ahmed, S. Karmaker and A. Rabbani (2011). "Study on groundwater, river water and tannery effluent quality in southwestern Dhaka, Bangladesh: Insights from multivariate statistical analysis." Journal of Nature Science and Sustainable Technology **5**(3): 125. 2011

Rahman, M. O., R. Khondkar Ayaz and T. Rahat Bari (2011). "Slums, Pollution, and Ill Health: The Case of Dhaka, Bangladesh. Megacities & Global Health." Megacities and Global Health by Khan, O. A. and G. Pappas, Washington, DC, USA, APHA Press. 2011

Begum, B. A., Tazmin, A., Rabbani, K. A., Biswas, S. K., Nasiruddin, M (2009). "Investigation of the sources of particulate matter from the Tajgaon Industrial Area, Dhaka" Journal of Bangladesh Academy of Sciences **33** (1):71-85. 2009

<b><i>Presentations/ Conferences</i></b>	Biennial Conference of the Asian Studies Association of Australia	2008
	<i>Air pollution in Dhaka: environmental management of a rapidly growing Asian mega city</i> was presented at the 17th Biennial Conference of Asian Studies Association of Australia in Melbourne, Australia.	
	Eurasia Conference on Chemical Sciences.	2008
	<i>Quantitative Determination of Lead in Air-Borne Suspended Particulate Matter Using Stripping Voltammetry</i> was accepted for a poster presentation in the 10th Eurasia Conference on Chemical Sciences at Manila, Philippines.	
	Singapore International Chemistry Conference	2007
	<i>Determination of Lead, Copper and Cadmium in mixed solutions using Stripping Voltammetry</i> was presented as a poster at the 5th Singapore International Chemistry Conference in Singapore.	
<b><i>Research experience</i></b>	Murdoch University Graduate Student Researcher	2011-2015
	Principal Supervisor: <i>Dr. Goen Ho</i> Thesis title: <i>Novel techniques for the recovery of sulphur as useful products from air pollutants using aerobic biofilters</i>	
	Independent University	2002 – 2011
	<i>Research on detection and control of pollutants like lead, arsenic and persistent organic pollutants in air and water using chemical analytical methods</i>	
	PURE project	2007 – 2011
	<i>Part of the team involved in the collaborative study with the Population Health Research Institute, McMaster University on a prospective urban and rural epidemiological study.</i>	
	University of Illinois	1997 - 1999
	<i>Synthesized and characterized air and moisture sensitive organometallic complexes. Characterization methods included NMR, FT-IR, UV-Vis spectroscopy, and mass spectroscopy.</i>	
<b><i>Scholarships/ Awards</i></b>	Murdoch University	2011-2015
	<i>Awarded the Australian Research Council funded APAI scholarship at Murdoch University in Western Australia for the duration of the PhD.</i>	

University of Illinois Chemistry Scholarship 2011

*Awarded the competitive scholarship for the duration of post graduate studies at the University of Illinois.*

Canadian Society for Chemistry Book Prize 1996

*Awarded to the most improved student entering the fourth year of a specialist program in chemistry.*

Prince of Wales Scholarship 1990

*Awarded a competitive scholarship for two years study at the United World College of the Atlantic*

***Referee***

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