

CURRICULUM VITAE



A. **PERSONAL DETAILS**

1. Name : Dr. Amnorzahira Amir
2. Date of Birth : 11-03-1980
3. Sex : Female
4. Office Address : Faculty of Civil Engineering, Universiti Teknologi MARA,
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<https://scholar.google.com/citations?user=gF94TKEAAA&hl=en>



B. **BRIEF PERSONAL HISTORY**

Amnorzahira was born in Penang, Malaysia on March 11, 1980. In 2003, she obtained her B.E (CIVIL) (Hons) from the Universiti of Malaya, Malaysia. In 2007, she obtained an M.Sc in environmental engineering from Universiti of Putra, Malaysia and subsequently her PhD in civil and environmental engineering from Korea Advanced Institute of Science and Technology (KAIST) in 2012. Her research interests include air pollution assessment, degradation of organic and inorganic contaminants using abiotic and abiotic-biotic interaction processes in soil and groundwater. Currently her work focuses on degradation of polyromantic hydrocarbons (PAHs) using bacteria in wastewater, degradation of heavy metals using agriculture wastes and heavy metal mobilization in groundwater. She joined Universiti Technology MARA (UiTM) in

2012 and currently is a Senior Lecturer in Faculty of Civil Engineering, UiTM. Dr. Amnorzahira Amir is a professional member of Engineering Board of Malaysia (BEM). She was a project management engineer in consultant and contractor engineering firms in 2004 to 2005. She has published her research findings in various ISI and SCOPUS indexed journals including Chemical Engineering Journal, Journal of Hazardous Materials, Industrial & Engineering Chemistry Research Journal, international and local proceedings to name a few.

C. ACADEMIC QUALIFICATION

No.	Name of Institution	Degree/Qualification	Date awarded
1.	Korea Advanced Institute Science and Technology. South Korea	PhD in Civil and Environmental Engineering	2012
2.	Universiti Putra Malaysia	MSc in Environmental Engineering	2007
3.	Universiti Malaya	Bachelor of Engineering (Hons.) Civil	2004

D. WORKING EXPERIENCE

1.	2012-Present	Senior lecturer, Faculty of Civil Engineering in Universiti Teknologi MARA (UiTM)
2.	2007-2008	Contract lecturer, Faculty of Civil Engineering in Universiti Teknologi MARA (UiTM)
3.	2005-2006	Civil Engineer, Malaysian Maritime & Dredging Corporation Sdn. Bhd. (MMDC)

E. PROFESSIONAL QUALIFICATIONS

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| 1. Member (Member No: 53086), Board of Engineers | 2006 |
| 2. Member (Member No: 94021), IEM | 2017 |

F. AREA OF RESEARCH

1. Soil and groundwater remediation
2. Air pollution
3. Water and wastewater treatment
4. Health Risk Assessment

G. PHD THESIS

Enhancement of Reductive Dechlorination of Chlorinated Organic Compounds by Iron Reductants with Cobalamin (III) (2012)

H. RESEARCH GRANTS

- i. **RMI DANA KECEMERLANGAN (RIF):** Removal of Heavy Metal in Complex Biogeochemistry of Soil and Groundwater, RM 32,000 (Leader, Completed) (2012-2014).
- ii. **DANA PEMBUDAYAAN DAN PENYELIDIKAN (RAGS):** Preparation and Characterization of Spent Mushroom Faming Waste (SMFW) Activated Carbon For Nickel and Methylene Blue Removal From Industrial Wastewater. (Member, Completed). RM 76,000.00 (2013-2015)
- iii. **Dana Pembudayaan dan Penyelidikan (RAGS):** Adsorption Mechanisms of Heavy Metals by Natural Adsorbents RM 80, 000(Leader, Completed) (2015-2016)
- iv. **GERAN INISIATIF PENYELIDIKAN (GIP):** Kinetic and adsorption modeling studies on the removal of chromium using pyrite, RM25,000 (Leader, Completed) (2017-2018)
- v. **LESTARI:** Removal of heavy metal by iron bearing soil mineral from soil and groundwater, RM20,000 (Member, Completed) (2016-2018)
- vi. **Fundamental Research Grant Scheme (FRGS):** Mechanisms of degradation and mobilization kinetics of PAHs in biogeochemistry environments of hyporheic zone, RM 80,000 (Leader, Active) (2017-2019)

I. PUBLICATION

- N. A. Abdul, S. Abdul-Talib, Amir.A. Nano-pyrite as a Reductant to Remove Chromium in Groundwater. ASCE Journal.2019 (under review).
- N. A. Abdul, S. Abdul-Talib, Amir.A. Nano-pyrite as a Reductant to Remove Chromium in Groundwater. Korean Society and Chemical Environment (KSCE) Journal.2019 (Submitted) (SJR: 0.831, Q2)
- Amir, A, Rahim,R.N.R.A, Abdul-Talib, S. Removal of Chromium of Hexavalent Using Agriculture Waste. Journal of Environmental Science and Development.2017, 8(4), pp 260-263. (SJR: 0.8, Q4)
- Nik Redzauddin, N.N.L., Kassim.J, Amir. A., Removal of zinc by nano-scale zero valent iron in groundwater. Applied Mechanics and Materials. 2015, 773-774, 1231-1236.
- Kyung, D., Amir.A., Choi, K., Lee, W., Reductive Transformation of Tetrachloroethene Catalyzed by Sulfide-cobalamin in Nano-mackinawite Suspension. Ind. Eng. Chem. Res. 2015, 54, pp 1439-1446.

- Towel, R., Amir.A., Talib, S., Physical Characterization of Rhodococcus zopfii DSM 44108 Bacteria Isolated from Municipal Sludge, Applied Mechanics and Materials. 2015, 773-774, pp 1307-1311
- Kamarudzaman. A.N., Chay, T.C., Amir.A., Talib, S., Study on Fe(II) Biosorption using Pleurotus Spent Mushroom Compost in a Fixed-Bed Column. Applied Mechanics and Materials. 2014, 664, pp392-396.
- Towel, R., Amir.A., Talib, S., Characterization of Natural Biofilm in Wastewater for Enhanced Growth Rate of Rhodococcus Zopfli Bacteria, Applied Mechanics and Materials. 2014, 8(22), pp 120-123
- Amir, A.; Lee, W. Enhanced Reductive Dechlorination of Tetrachloroethene during Reduction of cobalamin (III) by nano-mackinawite, J. Hazard. Mater. 2012. 235-236, pp:359-366.
- Amir, A. and Lee, W. Enhanced Reductive Dechlorination of Tetrachloroethene by Nano-sized Zero Valent Iron with Cobalamin (III). Chemical Engineering Journal. 2011, 170 (2-3),pp: 492-497.
- Amnorzahira; Sara Y. Y.; M. Rashid; A. Luqman Chuah. Air Pollution Trends of Mixed Commercial-Residential-Industrial Airshed in 2005. PSIS Enviro 2008: A National Seminar On Environment, Development & Sustainability, Selangor, Malaysia: July 28-29, 2008

J. CONSULTANCY

1. Study on average population equivalent for commercial premises. Ministry of Energy, Green Technology and Water (KETTHA) (Jan 2012-Dec 2012) (RM 5,000)(Completed)
2. Study on the impact of premise connection to water quality at Pantai Chenang, Langkawi. Ministry of Energy, Green Technology and Water (KETTHA) (Oct 2013-Dec 2013) (RM 6000) (Completed)
3. Promotion of Development Cooperation For Biomass Utilization biogas Resources. (UiTM-KEITI) (Jan 2016- Dec 2016) (RM 112,000) (Completed)