CURRICULUM VITA

DR. TAHA ABDUL-AZIM M. A. RAZEK

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QUALIFICATIONS:

Degree	Institution
Ph. D., Environmental Basic Sciences/ Analytical chemistry	Ain Shams University/The university of Iowa - USA
Masters of Science Basic Sciences/ Analytical chemistry	Ain Shams University
Bachelors of Science, Chemistry /Biochemistry	Ain-Shams University, Cairo, Egypt

WORK EXPERIENCE:

July 13, 2015 - Now	**Professor in Environmental Chemistry**	**Head of the Department of Environmental Basic Science, Institute of Environmental Studies and Research, Ain-Shams University, Egypt**
May 15, 2014- July 13, 2015	**Associate Professor in Environmental Analytical Chemistry**	**In charge of the head of the Department of Environmental Basic Science, Institute of Environmental Studies and Research, Ain-Shams University, Egypt**
Dec. 2007 – May 15, 2014	**Associate Professor in Environmental Analytical Chemistry**	**Department of Environmental Basic Science, Institute of Environmental Studies and Research, Ain-Shams University, Egypt**
Sep. 1999 – Dec. 2007	**Assistant Professor**	**Department of Environmental Basic Science, Institute of Environmental Studies and Research, Ain-Shams University, Egypt**
Dec. 1993-Aug 1999	**Lecturer**	**Department of Environmental Basic Science, Institute of Environmental Studies and Research, Ain-Shams University, Egypt**

Nov. 1983-Dec. 1993	**Analytical Chemist**	**Chemistry Administration, Ministry of Industry**
March 1983-Aug. 1983	**Quality Control Chemist**	**El-Ahram Factory for Metals**
Nov. 1982-March 1983	**Analytical Chemist**	**Paints and Chemical Industries**
March 1981-Nov. 1982	**Analytical Chemist**	**Egyptian Railways, Ministry of Transportation**

The duties include, teaching, exam preparation and grading and proctoring for graduate courses. The courses covered the following subjects:

- Wastewater Treatment
- Water Quality Management
- Waste Management
- Environmental Analytical Chemistry
- Instrumental Analysis
- Environmental Impact Assessment
- Pollution Monitoring

The duties also include supervision of M.Sc. and Ph.D. research projects (Currently co-supervising twenty four Ph.D. students (16 were graduated) and fifty five M.Sc. Students (25 were graduated)). Research projects include the following topics:

- Innovating some analytical procedures and chemical sensors for pollutants in environmental media.
- Wastewater characterization and treatment of dyeing, pharmaceutical, electroplating industries, and navigational and recreational activities.
- Removal and recovery of resources from industrial effluents.
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Training Courses and workshops attended

Workshop on the "Awareness of the specification 17025" held at the ministry of industry, Nov. 1993.
Time management
Managing scientific team
Managerial and legislative skills
Communication skills
Presentation skills
International publication
Strategic planning in high education institutions
Teaching and learning outcomes

Training Experience

August 2012-till now	Trainer for the chemists working for the " Environmental Monitoring Center " – Ministry of Health in the field of quality assurance in analytical chemistry and instrumentation, the uses of sewage, etc.	The "Environmental Monitoring Center" – Ministry of Health, Imbaba, Giza.
Feb.2012-April 2012	Trainer for Petroleum Environmental Inspectors in the field of oil soil pollution control and remediation. Natural Gas production and field safety.	PMEC training center, Dokki, Cairo.
Jan. 2007-Now	Trainer for Petroleum calibers in the field of EIA, environmental legislations, sustainable energy resources, and Environmental management	Misr Petroleum training center (El Manar), Sekket El-Waily St. Haddaiek El-Kobba, Cairo.
Sep. 1999-2007	Trainer for chemists, and engineers working for the factories belonging to military industries in the field of hazardous wastes, pollution monitoring, solid waste treatment, wastewater treatment and Environmental impact assessment	Medical Risk Analysis Unit, Environmental Studies and consultation Center, Institute of Env. Studies and Research, Ain Shams University, Abbassia, Cairo, Egypt.
2007-2010	Training center , Ministry of armament production	Belbis road
Around the year 2006/2007	Training course (air pollution) for workers' leaders	Workers' University, in different governorates etc.(Sharkia, Menofia, Port Said, El-Gharbia….)
22-26/7/2007, 26/7/2008	Training course on "Environmental Decision Making", EIA in Malasyia and Abu-Dhabi	Ecoman, Abu-Dhabi, UAE
June, 2002 **Dec. 2002** **December 2003**	Instructor in a training course for environmental inspectors on "Environmental Pollution and Waste Management"	Carrier Development & Consultation Academy *(CDC)*, 7, El-Moushir Ahmed Ismail Street, Heliopolis, Cairo, Egypt
Jan. 1999- April 1998	Research Assistant under supervision of Prof. Dr. M. A. Arnold	Department of chemistry, The University of Iowa, Iowa city, USA, IA 52242
Nov. 1983- Dec.	Trainer for raw material chemists	Chemistry

1993	working for companies, factories, and different institutions in the field of iron and steel, refractories, glass and ceramics, and mining industries	Administration, Ministry of Industry, 12 Ramsis St. Cairo, Egypt.

MS work

Working in a research project dealing with water bodies (canals and drainage) that are affected by industrial effluents and garbage. Research was conducted on water, soil and plant samples collected from the area of Mostorod (Agro-industrial area). The research was conducted to study the flow of metals (pollutant) from water to soil and to plant (as a mediator to humans).

Ph. D. Work

The work done is innovating fluorescent sensors for the determination of environmental pollutants. Sulfur dioxide was determined in its gaseous state with solid state fluorometer. The work also included a flow-injection analysis method for the determination of chromium (VI). Also, fluorescence sensor for the determination of formaldehyde using immobilized formaldehyde dehydrogenase was innovated. A near infra-red (NIR) method for the prediction of binary mixture of alkylsulfates. A proposal for treating effluents from electroplating and surfactant industries by adsorption on powdered date kernels was carried as well.

OTHER ACTIVITIES

MANAGER FOR THE ENVIRONMENTAL CONSULTATION AND RESEARCH CENTER

MEMBERSHIPS AND ACTIVITIES

BASIC SCINCE SUB-COMMITTEE FOR THE USE OF NANOTECHNOLOGY IN DESALINATION AND WASTEWATER TREATMNET, ACADEMY OF SCIENTIFIC RESEARCH AND TECHNOLOGY

EGAC WATER AND WASTEWATR COMMITTEE FOR WATER LABS ACCREDITION

SYNDICATE FOR SCIENTIFIC PROFESSIONS

THE EGYPTIAN ORGANIZATION FOR STANDARDS AND QUALITY CONTROL (COMMITTEE FOR POLLUTION MONITORING INSTRUMENTATION)

POLLUTION MONITORING AND WASTE CONSULTANT

ENVIRONMENTAL IMPACT ASSESSMENT STUDIES

The preparation of Environmental Impact Assessment Studies of the following:

EIA study for "Silver Star Mall", New Cairo city, 2017
EIA study for Water Way residential complex and Mall, New Cairo city, 2016
Environmental social impact assessment for Hadeer touristic village Km 124 Alex-Matrouh road (2015).
Environmental impact assessment for ADWIA factory for Pesticides, El-Obour industrial city (2014).
Environmental impact assessment framework (ESIAF) for sanitary project in Elsharkia and Elmenofia Governorates funded by the World Bank for the Holding Company for drinking water and sanitation (2011).
ESIA social integrated sanitation project in the provinces of El-Gharbia, Kafr El-Sheikh, and El-Behaira funded by the World Bank for the Holding Company for drinking water and sanitation (2009).
EIA for the company to an international ceramics (Abu Radi - Beni Suef)
Study the environmental impact assessment for Al Ezz Ceramic (Ceramic jewel - Sadat)
EIA for the power station with solar energy (Al Ain Sokhna - Suez - Arab Organization for Industrialization)
Study the environmental impact assessment for workshop assembly of wind turbines to produce energy (Al Ain Sokhna - Suez - Arab Organization for Industrialization)
EIA for the power station with solar panel fabrication workshop (k 17 Cairo-Suez Road -Arab Organization for Industrialization)
Study the environmental impact assessment for workshop assembly of wind turbines to produce energy (k 17 Cairo- Suez Road -Arab Organization for Industrialization)
Conduct Baseline studies for El-Max area, Shell company (Alexandria)
Marble Company "Magronite" Sadat City
EIA for medical waste incinerator in Ismailia
EIA for the Scientific Forum El-Tour (South Sinai) for the Institute of Cooperative Studies.

Review of the Studies Environmental Impact Assessment (for EEAA)

• Arab Company for Cement (El Sokhna - Suez)
• National Cement Company, El Tebeen (cement mixture)
• National Company for Cement (Sheikh Fadl - El-Minia)
• Gas pipeline Nubariya-Sadat
• Gas pipeline Sadat-October 6th.
• Arab Company for Cotton (Almtahra – El-Minya)
• Wastewater Treatment Plant extensions (El-Gabal El-Asfar)
• International Company for the production of furfural (Sheikh Hassan - Beni Suef)
Kima factory for fertilizers rehabilitation

Oil waste treatment in Salheya
Daqhlia Beet sugar
Petroleum facilities, Red sea
Pearl for glass, 6th October
El Sallab ceramics, 10th of Ramadan
La Bautee' ceramics, El Sokhna, Suez
Insecticides and chemicals factory, Borg El Arab
El Massrieen for Iron – Beni Suef
Belet Production, Port Said for Steel
El- Awali industrial complex – 6th October
Kargil for sugar refining, Borg El Arab
National foods- El Matahra, El minia
Expo city, Exhibition Yard, Nasr City

LIST OF PUBLICATIONS:

I. THESIS AND DISSERTATION:

M Sc. "Environmental Impact of Industrial Area Mostorod on the Concentration of Some Elements in Water/Soil and Plant".
Ph. D. "Environmental Assessment of Some Pollutants in the Effluents of Some Industries and Proposal for Treatment".

II. PAPERS IN REFEREED JOURNALS:

a. Published internationally and accepted

1- Fawzia A. Fahim; Amin M. A. Abdallah and Taha A. M. Abdel Razek, "Flow and accumulation of pollutants in an agro-industrial ecosystem" Journal of African Earth Sciences, 1995, 20, 295-301.

2- Taha M. A. Razek; Scott Spear; Saad S. M. Hassan and Mark A. Arnold, "Selective measurement of chromium (VI) by fluorescence quenching of ruthenium, Talanta, 1999, 48, 269-275.

3- Taha M. A. Razek; Michael J. Miller; Saad S. M. Hassan and Mark A. Arnold (1999), "Optical sensor for sulfur dioxide based on fluorescence quenching, Talanta, 1999, 50, 491-498.

4- Ali M. El-Mobaidh; Taha M. A. Razek and Nivan K. Lasheen, Classification of in-flight catering wastes in Egypt Air flights and its potential as energy source (Chemical Approach)", Waste Management, 2006, 26, 587-591.

5- Sherif M. A. Keshk, Taha M. A. Razek and Kazuhiko Sameshima, Production of environmentally friendly cellulose, African J Biotechnol., 2006, 5, 1519-1523.

6- El-Baqary, R. I.; M. A, Razek, T. and Ramadan, A. E., Fluorimetric determination of chlorodesmethyldiazepam in pharmaceutical formulations and in aqueous media, Analytical letters, 2007, 40, 2295-2300.

7- Taha M. A. Razek, El-Baqary, R. and Ramadan, A. E., Fluorimetric Method for the determination of GATIFLOXACIN in different pharmaceutical formulation, Analytical letters, 2008, 41, 417-423.

8- Taha M. A. Razek and Kaled R. A. Latif, Chromium (VI) adsorption from aqueous solutions using plant based solid wastes, J king Saud University, 2009, 215-220.

9- Taha M. A. Razek, Hossam M. Said, Mervat R. Khafaga and Abdel Wahab M. El-Naggar, Effect of gamma irradiation on the thermal and dyeing properties of blends based on waste poly(ethylene terephthalate) blends (2010) Journal of Applied Polymer Science, 3482–3490)

10- Hossam E M Sayour, Taha M A Razek, Karima F Fadel, Flow injection spectrofluorimetric determination of iron in industrial effluents based on fluorescence quenching of 1-naphthol-2- sulfonate (2011) J fluorescence 21(4) 1385-91.

11- Hossam E. M. Sayour ;Taha M. A. Razek and Karima F. Fadel (2011), Simple flow injection analysis of Pb (II) by fluorescence quenching of folic acid (as a green reagent) in environmental samples, Proc. of the 4th Animal Wealth Research Conf. in the Middle East & North Africa, Foreign Agricultural Relations (FAR), Egypt, 3 – 5 October (2011) pp. 157 – 170.

12- Taha M. A. Razek, Impact of primary treated sewage water on the chemical composition of safflower oil as a potential candidate for biodiesel production, IOSR Journal of Environmental Science, Toxicology and Food Technology, 2013, 7, 4, 55-61. (Online publication)

13- Nadia G. Kandile, Taha M. A. Razek, Ahmed M. Al-Sabagh and Maamoun M. T. Khattab Synthesis and evaluation of some amine compounds have surface active properties as H2S scavenger, Egyptian J of Petroleum (publication of Elsevier), 2014, 23, 3, (in press).

14- 12- Taha M. A. Razek (2015), Single Component Adsorption of Nickel, Cadmium, Copper and Lead from Aqueous Solution Using Aswan Clay, International Journal of Science and Research (IJSR), 4, 3, 2114-2118.

15- Taha M. A. Razek (2015), BIOSORPTION OF CHROMIUM (VI) FROM SINGLE ION SOLUTIONS ON COTTON STALKS AND RICE STRAW WASTES, IOSR J of Applied Chemistry, 8, 4 (II) 36-41.

16- Mahmoud A. Rabah, Taha M.A. Razek and Omar M. Abdel Aziz (2015), PREPARATION OF MANGANESE NANOPARTICLES AND VALUABLE SALTS FROM SPENT DRY BATTERY CELLS, International Journal of Technical Research and Applications, 3, 1, 25-30.

17- A. H. Gouda, A. S. El-Gendy, T. M. Abd El-Razek , H. I. El-Kassas (2014), Evaluation of Phytoremediation and Bioremediation for Sandy Soil

Contaminated with Petroleum Hydrocarbons, ICBEE 2014: September 15-16, Paris, France.

18- T. M. Abd El-Razek , , A. S. El-Gendy and M. M. F. Hussein (2016) Utilization of drinking water treatment slurry to produce aluminum sulfate coagulant", Water Environment Research, in press.

19- T. M. Abd El-Razek , , A. S. El-Gendy and M. M. F. Hussein (2016) Evaluation of leached metals in recovered aluminum coagulants from water treatment slurry", Water Science and Technology, in press.

Local publication

20- Abd El-Ghany G. Aboulnour, Hayam F. Shaalan, Taha Abd El-Razek, Ali N. Nasser, Sahar S. Ali (2008), Treatment of phenolic industrial wastewater using activated sludge process preceded by anoxic selector, CATRINA, 3,3,17-23. CATRINA is published by The Egyptian Society For Environmental Sciences.

21- Hiam F. Shaalan, Taha M. A. Razek, Ali N. Nasser, Sahar S. Ali and Abd El-Ghany G. Aboulnour, (2008), Parametric and kinetic study for P-nitrophenol removal in batch activated sludge process utilizing acclimated secondary sludge, J Egypt. Soc. Biotech. Environ. Sci., 11(C), 1-17.

22- H. I. El-Kassas, T. M. A. Razek, and M. N. Farid (2006) Water Reclamation Using Duckweed Rhizofiltration, J. Engin. And Appl. Science, 53, 4, 447-462.

23- **Hesham I. El-Kassas and Taha M. A. Razek (2001) "Environmental impacts of industrial activities on the environment of ezbet abo senna (qalioub, el-qalioubia governorate, Egypt)" J. Egypt. Soc. Toxicol., 25, 77-82.**

B. **Publications in the Journal of Environmental Sciences (Published by the Institute of Env. Studies and Research, Ain Shams University).**

1- Ashraf M. I. Refaat; M. N. Farid; and Taha M. A. Razek (2003) "Control of environmental impacts of oil industry", J Env. Sci., 6, 4, 1227-1242.
2- R. R. Ayoub; T. N. Morcos; H. F. Ghoneimy; E. A. Saad; and Taha M. A. Razek (2004) "Structural features and capacity of hydrous titanium oxides as ion exchangers", J Env. Sci., 8 (4), June, 1089-1109.

3- M. Abu Shady, A. M. Ahmed, Taha M. A. Razek, Mohamed A. Borhan, and Eman A. Diab (2004) "Biodegradation of poly aromatic hydrocarbons PAHs by certain locally isolated bacteria", J Env. Sci., 9 (1), Dec., 17-35.

4- Rashwan M. Farag; Shadia A. Fathy; Taha M. A. Razek and Mohamed F. Tash (2004) "Environmental Impacts on workers in natural gas and gasoline refilling stations", J Env. Sci., 9 (1), Dec., 61-85.

5- M. H. Ragab; Ibrahim Nassar and Taha M. A. Razek (2004) "The economic evaluation of the environmental influences of nitrogenous fertilizer industry on work environment", J Env. Sci., 9 (1), Dec., 291-307.

6- M. Y. El-Kadi; E. M. Abdallah; Taha M. A. Razek and M. M. El-Haloty (2005) "Determination of aluminum concentration in drinking water and industrial waste water in greater Cairo", J Env. Sci., 10 (1), June, 29-43.

7- M. F. El-Shahat; Olfat D. Elsebaie; Taha M. A. Razek and Nabil M. Abdallah, (2005) "Drinking water quality produced from conventional and non-conventional plants reference to THMs, TOC, DOC, Turbidity, algae and aluminium", J Env. Sci., 10 (1), June, 45-67.

8- Al-Nowaihi, A. M.; Osman, A. M. A.; A. Razek, T. A. M. and El-Lamey, T. M. (2005) "Effect of some ecological factors on the chemical compounds in some xerophytes for enhancing their use", J Env. Sci. 10 (2), June, 373-396.

9- Abdul-Razek, T. A. M.; Ewais, E. M. M.; Abdel-Ghani, E. Y. and Abo-El-Enein, S. A. (2005) "Preparation and characterization of refractory cement using some alumina-rich wastes ", J Env. Sci. 10 (3), June, 815-830.

10- Abdel-Shafi, A. A.; Abdel-Razek, T. M. and Fadel, K. F. (2005) "Spectrofluorimetric determination of iron (III) in industrial effluents based on fluorescence quenching of 1-naphthol-2-sulfonate", J Env. Sci. 10 (3), June, 851-865.

11- Abdel-Kader, Z. M.; Saddik, M. F.; Darwish, A. H.; Abdel-Razek, T. A. M. and Elsayed, H. H. (2005) "Activity of caffeic acid as an antioxidant against liver injury induced by 1,2-dichloroethane in rats", J Env. Sci. 10 (3), June, 867-881.

12- Abulnour, A. G.; M. A. Razik, T.; Shaalan, H. F.; Hassan, A. N. and Ali, S. S., Factors affecting the removal of phenol from simulated wastewater by acclimatized activated sludge, J Env. Sci., 2005, 11, 2, 41-53.

13- El-Kassas, H. I.; El-Zemaity, M. S.; M. A. Razek, T.; and Metwally, K. R. A. (2005), Adsorption of nickel (II) from aqueous solutions onto plant waste-based biomass, J. Env. Science, 11, 3, 87-100.

14- Ewais, E. M.; Abo El-Enein, S. A.; M. A. Razek, T. and Ali, M. W. (2006) Utilization of water treatment plant's sludge in the manufacture of insulating refractories, J. Env. Science, 12, 3, 27-39.

15- Basyoni, M. N.; M. A. Razek, T.; Mostafa, Y. M. and Farag, A. A. (2006) An environmentally oriented field study valuing restored used engine oils ratio in transportation company and service stations, J. Env. Science, 12, 3, 277-295.

16- Hashem, A. I.; M. A. Razek, T.; Abdul-Azim, W. M. and Khalifa, M. A. (2006), Mitigation of the environmental impacts of some petroleum fuels using petroleum additives, J. Env. Science, 12, 4, 53-79.

17- M. A. Razek, T.; Amara, A. A. T.; El Kassas, H. I. and Sayed, S. A. (2006), Bioremediation of petroleum hydrocarbons contaminated soil, J. Env. Science, 13, 1, 151-165.

18- M. A. Razek, T.; Ramadan, A. A.; Morsy, R. M. M. and Hashem, A. I. (2007), Decolonization of reactive red 195 azodye in aqueous solution by photo-fenton process, J env. Sci., 14, 3, 21-34.

19- Mustafa, Y. M.; M. A. Razek, T.; Nagya, M. A.(3) and Hashem, A. I.(2007), Impact of navigational activities along the river Nile between El-Maadi and El-Manyal on polycyclic aromatic hydrocarbons in water, j env. Sci., 14, 2, 25-44.

20- Hassan, S. S. M.; Razek, T. A. M. A.; El Meer, S. and Al- Marri, A. M. (2008), Mercury removal from hazardous solid waste adsorbent produced from purification of natural gas in methanol industry, J env. sci., 16, 2, 1-18.

21- Nada, A. M. A.; El-Kady, M. Y.; Razak, T. M. A. and El-Ghamry, A. M. (2009), Thermal behavior of treated banana leaves pulp, J Env. Sci., in press.

22- Taha M. A. Razek, A. S. El-Gendy, and A. M. Helmy (2012) Factors affecting the formation of adsorbable organic halogens (AOXs) in water treatment plants in greater Cairo, J Env. Sci., in press.

23- Taha M. A. Razek, Hesham I. El-Kassas, Khaled Tajul Din and Hamdy I. Ahmed (2013), Desalination of brackish water using solar electrodialysis, J Env. Sci., in press.

24- Alkadi, M.; M. A. Razek, T.; Shehata, A. and Morsy, E. "Cationic modified rice starch for drinking water treatment, J Env. Sci., in press.

25- Ahmed S. El-Gendy, Taha M. A. Razek, Hesham I. El-Kassas, Hesham Abdel-Latif (2013), Growth of different aquatic plants in sewage sludge matrix, J Env. Sci., in press.

III. Papers in conferences:

1-Sulfur dioxide fluorosensor based on fluorescence quenching of rhodamine B isothiocyanate, submitted to Pittsburgh Conference, Atlanta 1997.
2- Production of environment friendly cellulose from beet sugar molass, Bioresource Technology, 2nd International Conference on Chemistry and its application, Al-Daoha Qatar, Dec. 2003.
3- Chromium (VI) biosorption from aqueous solutions using plant based biomass solid wastes, 3rd Saudi conference, El-Riyadh, KSA, March 2007.

IV. Technical reports:

The Impact of sulfur Tanker spillage in River Nile at Beni Suef, 2001

References:

Prof. Dr. Mark A. Arnold, Chemistry Department, The University of Iowa, Iowa city, IA 52242, mark arnod@uiowa.edu

Prof. Dr. Saad S. M. Hassan, D. Sc., Faculty of Science, Ain Shams University, Abbassia, Cairo, Egypt, saadsmhassan@yahoo.com
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