

Curriculum Vitae

Azza Mohamed Mohamed Khaled



Date of Birth: December 27, 1961
Place of Birth: Alexandria, Egypt
Nationality: Egyptian
Occupied position: Professor Assistance
Department: Aquatic pollution Laboratory
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Education

1- B.Sc. in Chemistry with **very good with honor** in May **1985** from Faculty of Science, Alexandria University, Egypt.

2- Postgraduate courses for MSc. degree in Chemistry with **very good** from Faculty of Science, Alexandria University, Egypt.

3- MSc. in Chemistry, October **1989**, Chemistry Department, Faculty of Science, Alexandria University, Egypt.

Thesis [*Synthesis and reactivity of some transition metal with some hydrazine derivatives*]

4- Ph.D. in Chemistry, May **1998**, Chemistry Department, Faculty of Science, Alexandria University, Egypt.

Thesis [A comparative study for distribution of some heavy metals in aquatic organisms fished from Alexandria region]

Projects

1- NIOF-EIMP Environmental Monitoring program project (Two years projects 1999 and 2000) (**Duty:** Analysis of organic pollutants and write report).

2- NIOF-Academic of Science and Technology Development of Lake Burullus (Three years project 2003-2005) (**Duty:** Analysis of organic and inorganic pollutants and write report).

3- NIOF Monitoring of Eastern Harbour (two years project 2004-2006) (**Duty:** Analysis of inorganic pollutants and write report).

4- NIOF Effect of Industrial, Marine Transport and Tourism on Physical, Chemical and Biological Properties for Water and Fish Groups on West of Alexandria. (Two years project 2004-2006) (**Duty:** Analysis of organic and inorganic pollutants and write report).

5- Production of oil sorption-active material by chemical treatment of agriculture wastes to substitute the commercial synthetic non-biodegradable material in the aquatic environment. (Two Years project 2005-2006) (**Duty:** Practical work and write report)

Experiences

- 1- Experience in the preparation of organo-metallic compounds and their reactions with the amino acids and using of the NMR, Mass-spectra for their identification (M.Sc. Thesis).
- 2- Experience in the analysis of environmental samples (water, sediment, and biota) for the heavy metals (Ph.D. Thesis).
- 3- Analysis of environmental samples for hydrocarbons.
- 4- Analysis of environmental samples for pesticides and PCBs.
- 5- Using of Gas Chromatography for analysis of organic pollutants.
- 6- Using of Flame Atomic Absorption Spectrophotometer, Perkin-Elmer for analysis of inorganic pollutants.
- 7- Using of Atomic Absorption Spectrophotometer, Varian-10 Plus for analysis of inorganic pollutants.
- 8- Cooperation in the analysis of all samples submitted to the Central Lab. At NIOF in 2002-2003.
- 9- Analysis of active material in some imported food (Central Lab. NIOF).
- 10- Use of marine algae to remove pollutants (article in writing).
- 11- Use of agriculture waste to remove pollutants (article in experimental stage).
- 12- Use of personal computer in work with different programs (Word, Excel, PageMaker, statistica).

Training and Workshops

- 1- **Trace Metal in Marine aquatic Environment** from the Marine Environment Laboratory, International Atomic Energy Agency, Monaco, France, October, 1992.
- 2- Participation in the third FAO/UNEP Sub-regional workshop on **The**

Monitoring of Chemical Contaminants in Marine Biota for Trends, National Institute of Oceanography and Fisheries, Alexandria, Egypt, 6-9 November, 1995.

- 3- Total Hydrocarbons Determination in Sediments** from Egyptian Environmental Affairs Agency and Danida, National Institute of Oceanography and Fisheries, Suez, Egypt, 13-25 March, 2004.
- 4- Pesticides and PCBs in Sediments and Biota** from Egyptian Environmental Affairs Agency and Danida, National Institute of Oceanography and Fisheries, Alexandria, Egypt, 1-16 May, 2004.
- 5- Numerical analysis** (by NIOF on 8-25 May 2004).
- 6- Marine Information Management** (IOC-UNESCO – Belgium on 15 August – 4 September 2005).
- 7- ODINPUBAFRICA Workshop** (IOC-UNESCO – Belgium on 5-9 December 2005)

List of Publications

I- Articles published in the field of Marine Environmental Pollution with Heavy Metals

- 1- Azza Khaled**, Ahmed El Nemr, Amany El-Sikaily (2003): “Contamination of coral reef by heavy metals along the Egyptian Red Sea Coast” Bull. Environ. Contamin. Toxicol. 71(3): 577-584.
- 2- Ahmed El Nemr**, Amany El-Sikaily, **Azza Khaled** (2003): “Heavy metals concentration in some fish tissues from south Mediterranean waters, Egypt” Egyptian Journal of Aquatic Biology and Fishery, Vol. 7(3): 155-172.
- 3- Amany El-Sikaily**, **Azza Khaled**, Ahmed El Nemr (2004): “Heavy metals monitoring using bivalves from Mediterranean Sea and Red Sea” Environ. Mon. Assess. 98 (1-3): 41-58.
- 4- Azza Khaled** (2004): “Heavy metals concentrations in certain tissues of five commercially important fishes from El-Mex Bay, Alexandria, Egypt” Egypt J. Aquat. Biol. & Fish. Vol. 8(1): 51-64.
- 5- Azza Khaled** (2004): “Seasonal concentrations of some heavy metals in muscle tissues of *Siganus rivulatus* and *Sargus sargus* from El-Mex Bay

and Eastern Harbour, Alexandria, Egypt” Egypt J. Aquat. Biol. & Fish. Vol. 8(1): 65-81.

6- Amany El-Sikaily, **Azza Khaled** and Ahmed El Nemr (2005): "Leachable and total heavy in muddy and sandy sediment collected from Suez Gulf" Egyptian Journal for Aquatic Research, Vol. 31: 99-119.

7- Laila Abdel-Fattah Mohamed and **Azza Khaled** (2005): "Comparative study of heavy metal distribution in some coastal seaweeds of Alexandria, Egypt" Chemistry and Ecology, 21(3), 181–189

8- **Azza Khaled**, Ahmed El Nemr and Amany El Sikaily (2006): "An assessment of heavy metals contamination in surface sediments of the Suez Gulf using geoaccumulation indexes and statistical analysis" Chemistry and Ecology 22(3) 239-252.

9- Ahmed El Nemr, **Azza Khaled** and Amany El-Sikaily (2006): "Distribution and statistical analysis of leachable and total heavy metals in the sediments of the Suez Gulf" Environmental Monitoring and Assessment. Vol. 118 (1-3), 89-112.

II - Articles published in the field of Marine Environmental Pollution with Petroleum Hydrocarbons

10- Amany El-Sikaily, **Azza Khaled**, Ahmed El Nemr, Tarek O. Said, Aly M.A. Abd-Allah (2002): “Determination of hydrocarbons in bivalve from the Egyptian Mediterranean Coast” Mediterranean Marine Science Vol. 3/2: 123-131.

11- Amany El-Sikaily, **Azza Khaled**, Ahmed El Nemr, Tarek O. Said, Aly M.A. Abd-Allah (2003): “Polycyclic aromatic hydrocarbons and aliphatic in the coral reef skeleton of the Egyptian Red Sea Coast” Bull. Environ. Contamin. Toxicol. 71(6): 1252-1259.

12- Ahmed El Nemr, Amany El-Sikaily, **Azza Khaled**, Tarek O. Said, Aly M.A. Abd-Allah (2004): “Determination of hydrocarbons in mussels from the Egyptian Red Sea Coast” Environ. Mon. Assess. 96(1-3): 251-261.

13- Ahmed El Nemr, Tarek O. Said, **Azza Khaled**, Amany El-Sikaily and Aly M.A. Abd-Allah (2007) "The distribution and sources of polycyclic aromatic hydrocarbons in surface sediments along the Egyptian Mediterranean coast" Environ. Mon. Assess. 124 (1-3) 343-359.

III - Articles published in the field of Marine Environmental Pollution with Pesticides and PCBs

14- Ahmed El Nemr, Tarek O. Said, **Azza Khaled**, Amany El-Sikaily, Aly M.A. Abd-Allah (2003): "Polychlorinated biphenyls and chlorinated pesticides in mussels collected from the Egyptian Mediterranean Coast" Bull. Environ. Contamin. Toxicol. 71(2): 290-297.

15- Azza Khaled, Ahmed El Nemr, Tarek O. Said, Amany El-Sikaily, Aly M.A. Abd-Allah (2004): "Polychlorinated biphenyls and chlorinated pesticides in mussels from the Egyptian Red Sea" Chemosphere Vol. 54(10): 1407-1412.

16- Ahmed El Nemr, Amany El-Sikaily, **Azza Khaled**, Tarek O. Said, Aly M.A. Abd-Allah (2004): "Chlorinated Pesticides and Polychlorinated biphenyls in the coral reef skeleton of the Egyptian Red Sea Coast" Bull. Environ. Contamin. Toxicol. 72(6): 1195-1202.

17- Ahmed El Nemr, Amany El-Sikaily, **Azza Khaled**, Tarek O. Said, Aly M.A. Abd-Allah (2004): Polychlorinated biphenyls (PCBs) and Chlorinated Pesticides contamination in coral reef skeleton from the Egyptian Red Sea coast" journal of king Abdulaziz University Marine Sciences. 14, 53-64.

IV- Articles published in the field of waste water treatment.

18- Ola Abdelwahab, Ahmed El Nemr, Amany El-Sikaily, **Azza Khaled** (2005): "Use of rice husk for adsorption of direct dyes from aqueous solution: A Scarlet. Egyptian Journal for Aquatic Research Vol. 31 (1), 1-12.

19- Ahmed El Nemr, Ola Abdelwahab, **Azza Khaled** and Amany El-Sikaily (2005): "Removal of chrysophenine from aqueous solution by *Ulva lactuca*" Egyptian Journal for Aquatic Research Vol. 31, 86-98.

20- Azza khaled, Ahmed El Nemr, Amany El-Sikaily and Ola Abdelwahab (2005): "Biosorption of Basic Blue nine from aqueous solution by marine algae". Egyptian Journal for Aquatic Research Vol. 31, 130-141.

21- Amany El-Sikaily, **Azza Khaled**, Ahmed El Nemr and Ola Abdelwahab (2006): "Removal of methylene blue from aqueous solution by marine green alga *Ulva lactuca*" Chemistry and Ecology 22(2), 149-157.

- 22- Ola Abdelwahab, Ahmed El Nemr, Amany El-Sikaily, **Azza Khaled (2006)**: "Biosorption of Direct Yellow 12 from aqueous solution by marine green algae *Ulva Lactuca*" Chemistry and Ecology 22 (4) 253-266.
- 23- Ola Abdelwahab, Amany El Sikaily, **Azza Khaled**, Ahmed El Nemr (2007): "Mass transfer processes of Chromium (VI) adsorption onto Guava seeds" Chemistry and Ecology. 23(1) 73-85.
- 24- Ahmed El Nemr, Amany El Sikaily, **Azza Khaled**, Ola. Abdelwahab (2007): "Removal of toxic chromium (VI) from aqueous solution by activated carbon using *Casuarina Equisetifolia*" Chemistry and Ecology. 23(2) 119-29.

V- Articles in Press

- 25- Ahmed El Nemr, **Azza Khaled**, Amany El-Sikaily, Tarek O. Said and Aly M. A. Abd- Allah (2006): "Distribution and sources of polycyclic aromatic hydrocarbons in surface sediments of the Suez Gulf" Environmental Monitoring and Assessment. **In Press.**
- 26- Ahmed El Nemr, Amany El Sikaily and **Azza Khaled (2006)**: "Total and leachable heavy metals in muddy and sandy sediments of Egyptian coast along Mediterranean Sea" Environmental Monitoring and Assessment. **In press.**
- 27- Ahmed El Nemr, Ola Abdelwahab, Amany El Sikaily, **Azza Khaled (2006)**: "Adsorption of Direct Red 23 from Aqueous Solution Using Rice Husk Activated by Citric Acid" Environmental Science: An Indian Journal. **In press.**
- 28- Amany El Sikaily, Ahmed El Nemr, **Azza Khaled**, Ola Abdelwahab (2007): "Removal of toxic Chromium from wastewater using green alga *Ulva lactuca* and its activated Carbon" Journal Hazardous Materials. **In press.**

VI- Articles submitted for publications

- 29- Ahmed El Nemr, **Azza Khaled**, Ola Abdelwahab, Amany El Sikaily (2007): "Removal of toxic chromium from aqueous solution, wastewater and saline water by marine red alga *Pterocladia capillacea* and its activated carbon" Bioresource Technology. **Submitted for publication, December 2006.**

30- Ahmed El Nemr, Ola Abdelwahab, **Azza Khaled**, Amany El Sikaily (2007): "Removal of direct blue-86 from aqueous solution by new activated carbon developed from orange peel" Journal of Hazardous materials. Submitted for publication, April 2007.

31- Azza Khaled, Ahmed El Nemr, Amany El Sikaily, Ola Abdelwahab (2007): "Adsorption Isotherm and Kinetics of Direct Navy Blue-106 Removal from Artificial Textile Dye Effluent using Activated carbon from orange peel" Journal of Hazardous materials. Submitted for publication, January 2007.

32- Ahmed El Nemr, **Azza Khaled**, Ola Abdelwahab, Amany El-Sikaily (2007): "Direct Yellow 12 by activated carbon developed from Orange Peel" Journal of Environmental Management, Submitted for publication, January 2007.

33- Ahmed El Nemr, **Azza Khaled**, Amany El-Sikaily, Ola Abdelwahab (2007): "Treatment of wastewater containing toxic chromium using new activated carbon developed from date palm seed" Journal of Hazardous materials. Submitted for publication, February 2007.

VII- Articles to be submit for publications

34- Ola Abdelwahab, Amany El-Sikaily, Ahmed El Nemr, **Azza Khaled** (2007): "Adsorption of methylene blue on *Rice husk*".

35- Ahmed El Nemr, Amany El-Sikaily, **Azza Khaled**, Tarek O. Said (2007): "Petroleum hydrocarbons in surface sediment collected from Egyptian Mediterranean coast".

36- Amany El-Sikaily, **Azza Khaled**, Ahmed El Nemr, Tarek O. Said (2007): "Distribution of PCBs and pesticides in surface sediment from Egyptian Red Sea coast".

37- Amany El-Sikaily, **Azza Khaled**, Ahmed El Nemr (2007): "Distribution of trace elements in surface sediment from Egyptian Mediterranean Coast".

VIII- International Conference

38- Mahmoud A. Abdelmoneim, **Azza Khaled**, Magdy F. Iskander (1994): "A study on the levels of some heavy metals in El-Mex, West of

Alexandria, Egypt". The 4th Conf. Of the Environ. Prot. Is a must 10-12 May, (1994), 155-174.

- 39- **Azza Khaled**, Ahmed El Nemr, Amany El-Sikaily (2002): "Contamination of coral reef by heavy metals along the Egyptian Red Sea Coast" The First Egyptian International Conference on Protected Areas and Sustainable Development, Sharm El Sheikh, October 23-26 (2002), p26.
- 40- Ahmed El Nemr, Amany El-Sikaily, **Azza Khaled**, Tarek O. Said, Aly M.A. Abd-Allah (2002): "Chlorinated Pesticides and Polychlorinated biphenyls in the coral reef skeleton of the Egyptian Red Sea Coast" The First Egyptian International Conference on Protected Areas and Sustainable Development, Sharm El Sheikh, October 23-26 (2002), p58.
- 41- Ahmed El Nemr, Amany El-Sikaily, **Azza Khaled**, Tarek O. Said, Aly M.A. Abd-Allah (2002): "Determination of hydrocarbons in mussels from the Egyptian Red Sea Coast" The First Egyptian International Conference on Protected Areas and Sustainable Development, Sharm El Sheikh, October 23-26 (2002), p58.
- 42- Ahmed El Nemr, Amany El-Sikaily, **Azza Khaled**, Tarek O. Said, Aly M.A. Abd-Allah (2002): "Determination of hydrocarbons in mussels from the Egyptian Mediterranean Sea" The First Egyptian International Conference on Protected Areas and Sustainable Development, Sharm El Sheikh, October 23-26 (2002), p59.
- 43- Ahmed El Nemr, Amany El-Sikaily, **Azza Khaled** (2003): "Heavy metals concentration in some fish tissues from south Mediterranean waters, Egypt" Science Conference, Seiyun, Yemen, October 11-13 (2003).
- 44- **Azza Khaled**, Ahmed El Nemr, Tarek O. Said, Amany El-Sikaily, Aly M.A. Abd-Allah (2003): "Polychlorinated biphenyls and chlorinated pesticides in mussels from the Egyptian Red Sea" Science Conference, Seiyun, Yemen, October 11-13 (2003).
- 45- **Azza khaled**, Ahmed El Nemr, Amany El-Sikaily and Ola Abdelwahab (2005): "Biosorption of Basic Blue nine from water solution by marine algae" The 1st International conference on aquatic resources of the Arab Region, Sheraton El Montaza, Alexandria,

Egypt, 7-9th May 2005, p 38.

- 46- Ahmed El Nemr, Ola Abdelwahab, **Azza Khaled** and Amany El-Sikaily (2005): "Removal of Chrysophenine from aqueous solution by *Ulva lactuca*" The 1st International conference on aquatic resources of the Arab Region, Sheraton El Montaza, Alexandria, Egypt, 7-9th May 2005, p 42.
- 47- Ahmed El Nemr, Tarek O. Said, **Azza khaled**, Amany El-Sikaily, Fadia Abu El-Maged Mohamed (2005): "Gas-Chromatographic determination of organochlorines pesticides in bivalves using different columns and temperature programs" The 1st International conference on aquatic resources of the Arab Region, Sheraton El Montaza, Alexandria, Egypt, 7-9th May 2005, p 108.
- 48- Amany El-Sikaily, **Azza khaled** and Ahmed El Nemr (2005): "Leachable and total heavy metals in muddy and sandy sediments collected from Suez Gulf" The 1st International conference on aquatic resources of the Arab Region, Sheraton El Montaza, Alexandria, Egypt, 7-9th May 2005, p 109.
- 49- Ola Abdelwahab, Ahmed El Nemr, Amany El-Sikaily and **Azza Khaled** (2005): "Use of Rice husk for adsorption of direct dyes from aqueous solution: A case study of Direct F. Scarlet" The 1st International conference on aquatic resources of the Arab Region, Sheraton El Montaza, Alexandria, Egypt, 7-9th May 2005, p 110.
- 50- Ahmed El Nemr, **Azza khaled**, Amany El-Sikaily, Ola Abdelwahab (2005): "Removal of Methylene Blue from aqueous solution using carbon of agriculture waste" The 12 International conference for Arabian Biologist, Hodida, Yemen, November 19-24 (2005).
- 51- **Azza Khaled**, Ahmed El Nemr, Ola Abdelwahab and Amany El-Sikaily (2005): "Removal of Chromium (VI) from aqueous solution using activated carbon" The 12 International conference for Arabian Biologist, Hodida, Yemen, November 19-24 (2005).

- 52-** Ahmed El Nemr, **Azza Khaled** and Amany El Sikaily **(2005)**: "Distribution of heavy metals in surface sediment of Suez Gulf, Red Sea" The 12 International conference for Arabian Biologist, Hodida, Yemen, November 19-24 (2005).
- 53-** Ahmed El Nemr, **Azza Khaled**, Amany El Sikaily, Tarek O. Said and Aly M.A. Abd-Allah **(2005)**: "PAHs distribution and sources in surface sediments of the Suez Gulf, Red Sea" The 12 International conference for Arabian Biologist, Hodida, Yemen, November 19-24 (2005).
- 54-** Ahmed El Nemr, Amany El Sikaily **Azza Khaled**, Ola Abdelwahab **(2006)**: "highly active carbon from Casuarina equisetifolia for removing toxic Cr(VI) from aqueous solution" Second International conference on materials Institute of Materials Systems (IMS)/ School of Engineering American University of Sharjah – United Arab Emirates 17 – 19 January 2006.