**Curriculum Vitae**

**Hesham Zaki Ibrahim, Ph.D.**

**PERSONAL INFORMATION**

Position: Professor of Environmental Chemistry & Toxicology

Professional Address: Department of Environmental Studies

Institute of Graduate Studies & Research

Alexandria University, Alexandria, Egypt.

163, Horreya Avenue, Chatby 21526,

P.O Box: 832, Alexandria, Egypt.

Place of birth: Alexandria, Egypt

Nationality: Egyptian

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Emails: [hz\_ibrahim@yahoo.com](mailto:hz_ibrahim@yahoo.com); [heshamzaibrahim@gmail.com](mailto:heshamzaibrahim@gmail.com)

**Scientific achievements**

**h-index: 21.63 (Scopus)**

**Total citations: 379**

**EDUCATION**

**Ph.D. in Pesticide Chemistry & Toxicology** (1982-1986).

Thesis title: "The integrated bioenergetics of plant cells".

Department of Pesticide Chemistry, Faculty of Agriculture, Alexandria

University, Alexandria, Egypt – Department of Biochemistry & Agriculture

Biochemistry, The University College of Wales, Aberystwyth, UK (channel

system).

**M.Sc.** in **Pesticide Chemistry & Toxicology** (1978 -1981).

Thesis title: "Interaction of DDT and its biodegradable analogues with

mitochondrial ATPase".

Department of Pesticide Chemistry, Faculty of Agriculture, Alexandria University, Alexandria, Egypt.

**B.Sc.** in **Pesticide Chemistry** (4-years Degree, 1969 - 1973).

Graduated with Excellent Degree in Department of Pesticide Chemistry,

Faculty of Agriculture, Alexandria University, Alexandria, Egypt.

**Employment:**

**Professor (Emeritus) of Environmental Chemistry &**

**Toxicology,** Department of Environmental Studies, Institute of Graduate

Studies & Research, Alexandria University, Alexandria, Egypt (Aug 2011 –till now)

**Previous Posts:**

**Vice Dean for Community Service and Environment Development**

Institute of Graduate Studies & Research, Alexandria University, Alexandria,

Egypt (Sep 2009 – Aug 2011)

**Executive Director of Center of Graduate Studies & Research**

Alexandria University, Alexandria, Egypt (Special Unit). (Nov –

2008 - Sep 2009)

**Head of Environmental Studies** **Department,** Institute ofGraduate Studies & Research, Alexandria University, Alexandria, Egypt. From 2002 – 2005 (First cycle) and From 2005 – 2008 (Second cycle).

**Professor of Environmental Chemistry & Toxicology,** Department of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt. (Nov 1997- till now).

**Associate Professor of Environmental Chemistry & Toxicology,** Department of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt. (July 1992 – Nov 1997)

**Lecturer of Environmental Chemistry & Toxicology,** Department of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt. (June 1987 – July1992).

**Assistant lecturer** **of Environmental Chemistry & Toxicology**

Department of Environmental Studies, Institute of Graduate Studies & Research, Alexandria University, Alexandria, Egypt. (Sept 1982 – June 1987).

**FIELDS OF INTEREST:**

I have attended many conferences and workshops in the different branches of

my main field and I have special interest in the following fields:

Environmental chemistry and Toxicology, Biochemistry, Bioenergetics,

Molecular biology, Ecotoxicology, Biotechnology, Biosensors,

Electrochemistry, Pesticide Residues analysis.

**FELLOSHIPS AND SCHOLARSHIPS AWARDED**

* Postdoctoral Research Fellow, Department of Plant Sciences, Cornell University, USA.Collaborated with Prof. André Jagendorf, March-August, 1991.
* Three months/year, Visiting Scientist, School of Biological Sciences, Royal Holloway, University of London, UK. Collaborated with Professor John. W. Lewis, 1996, 1998, 2000, 2001, 2003, 2004, 2005, and 2006.
* Two weeks, Visiting Scientist, Wright State University, Dayton, Ohio, USA. Collaborated with Professor G.A. Burton. 2001.
* Three weeks/year, Visiting Scientist, School of Animal & Microbial Sciences, University of Reading, UK. Collaborated with Dr. A. Callaghan 2003, 2004, 2005 and 2006.

**Experiences**

**Major skills are described below:**

* Ecotoxicology of emerging pollutants
* Membrane biochemistry, and bioenergetics
* Toxicological studies
* Environmental Biomarkers
* Environmental sampling protocols
* The use of nanomaterial to detect contaminants in aquatic environments
* Laboratory and field-based studies monitoring the environmental fate (dissipation, leaching, preferential flow, spray drift) of pesticides in soil, air and water;
* Well trained in extraction of environmental samples;
* Pesticide residues analysis in food, soil, water, plant materials
* Instrumental analysis (GC-ECD/FPD/NPD/HALL/FID, HPLC-UV/PDA/Fluorescence/ Conductivity, GC-ITMS, GC-MS/MS, LC-MS/MS)**;**
* Development and validation of analytical methods;
* Analysis of Ecological quality of water, BOD, COD, Ions,

Metals, phenols, and other physicochemical properties of water;

* Nanotechnology for environmental remediation;
* Design and preparation of novel porous adsorbents for wastewater treatment;
* Advanced catalytic technology for water technology;
* Environmental Risk assessments;
* Development and teaching courses as needed by the Environmental Studies Department;
* Conducting research related to environmental science and technology;
* Supporting research of IGSR faculty members and MS/PhD students;
* Supervising post graduate students in their experimental theses/projects and related environmental sampling and analyses;
* Cultured *Chironomus reparius* , *Daphnia magna*, *Macrobrachium rosenbergii* and Brine shrimp (*Artemia salina*);
* Prepared toxicity test protocols based the U.S. EPA and ASTM test methods;
* Management and operation of the Research Center:
* Analytical needs assessment
* Preparation of budgets and procurement of equipment and supplies
* Analytical methods development, update, and validation
* Operation of analytical equipment
* Training lab personnel for environmental analysis and QA/QC procedures
* Analytical service provision to regional community

**National and Internationally Supported Research Project**

* Member of long-term program for pollution monitoring and research in the Mediterranean Sea)(MED-POL-Phase II)

***Supported by:*** (IAEA/UNEP)

***Date:*** 1991 – 1999.

* Co-Principle investigator of Pilot survey of herbicides in the Nile Delta (Rosetta Branch)

***Supported by:*** FAO/IAEA/UNEP

***Date:*** 1991 – 1992

* Co-Principle investigator of Pilot survey of fungicides in the Nile Delta (Rosetta Branch)

**Supported by:** FAO/IAEA/UNEP

***Date:*** 1993 – 1994

* Member of Pollution monitoring in the marine environment on the Mediterranean coast of Egypt

***Supported by:*** IAEA/UNEP

***Date:*** 2000 – 2001

* Co-Principle investigator of Restoration and development of Lake Maryut

***Supported by:*** The University Linkage Project, Phase II, Grant No. 980418, Alexandria Univ./Wright Univ.

***Date:*** 2000 – 2001

* Member of Safe utilization of wastewater and sewage sludge on agricultural lands: Nutritional and economic benefits, and environmental and social impacts.

***Supported by:*** The University Linkage Project, Phase II, Grant No. 930113, Alexandria Univ. /Montana State Univ./Alex..

***Date:*** 1999 – 2002.

* British Council Higher Education Link Projects funded by UK

Government Department for International Development (DFID):

* Member of Lakes and Wetlands Rehabilitation for Sustainable Development project: 1996 – 1999
* Member of Direct Toxicity Assessment of Sediment and Water Quality in Lakes Maryut and Burullus project: 1999 – 2002
* As link coordinator:

Link coordinator of Toxicity Assessment of Sediment and Water Quality in Lake Burullus, Kafr El-Sheikh project: 2003 – 2006

* Member of Willingness to Pay Survey Results": Egypt Utilities Management/Alexandria Results Package; Grant No. 263-0270.02 and 263-0241.00, prepared by AGWA Institutional strengthening Contract Project and AGOSD Institutional strengthening and Policy Reform Project: USAID/PA/**CH2M**HILL: 2002 – 2003
* Member of Faculty and Leadership Development project". Ministry of Higher Education: 2005-2007.
* Principle investigator of Environmental Survey prior the implementation of the sanitation component of the project entitled "Community Resources Development in Villages 7 & 8, Abbis, Alexandria.

***Supported by:*** The Egyptian Swiss Development Fund.

**Date:** 2007.

* Member of Quality Assurance and Accreditation Project (QAAP) in Institute of Graduate Studies & Research, Alexandria University.

***Supported by:*** Ministry of Higher Education, Egypt

***Date:***2008 – 2009.

* Member of Continuous Improvement and Qualification for Accreditation Project (CIQAP) in Institute of Graduate Studies & Research, Alexandria University.

***Supported by:*** Ministry of Higher Education and Alexandria University

***Date:*** 2010 – 2013.

**MEMBERSHIPS and COMMITTEES**

* Member, Egyptian Bioenergetics Group.
* Member, British Biochemical Society.
* Member, American Association for the Advancement of Science.
* Scientific Committees for several workshops and conferences.

**Consultations**

Short and long term consultation has been given in the field of drinking water

and wastewater, waste disposal, pesticide chemistry, environmental

chemistry and analysis to the following:

* Ministry of Environment
* Universities, Ministry of Higher Education
* El Nasr Salines Co.,
* Private Sector (Nile Linen Group, weaving, bleaching, dyeing &

Manufacturing Company, detergent industries, petroleum companies,

Crush El-Nile soft drinks Company and others)

**Training Courses/workshop attended**

* Basic Radiation Safety, Cornell University, USA, 1991
* IAEA training course on Atomic Absorption Spectrophotometer, Monaco, September, 1992
* IAEA training course on Chlorinated Pesticides Analysis, IAEA Monaco, 1992 and1999.
* The third FAO/UNEP sub-regional workshop on the monitoring of

chemical contaminants in the marine biota for trends, Alexandria,

Egypt, 1995

* Institute of Graduate Studies & Research/Charite' and Hohenheim universities, Germany workshop on "Environmental pollutants, fertility and protection" August 18th – 21th, 2007.
* Attended training course on skills of management and leadership, Institute of Graduate Studies and Research, Alexandria University, Sept., 27, 2010.
* Institute of Graduate Studies & Research, Alexandria University workshop on Quality Assurance, January, 22-24, 2011.
* Attended several courses in "Faculty and Leadership Development project". Ministry of Higher Education: 2005-2007.
* Attended workshop on Industrial and Research Laboratory Chemical Security in Egypt, 23-25 September, 2018, The American University in Cairo, Cairo, Egypt. Sponsored by the United States Department of State.

**Organizing activity:**

* + Gas Chromatography: Scope and Applications: 2000, 2003 and 2013, Institute of Graduate Studies and Research, Alexandria University
  + Pesticides: Minimizing Risks, Analysis & Detection: 2003, Institute of Graduate Studies and Research, Alexandria University
  + Advanced Techniques for Detection of pollution in petrochemicals Company 2009, Institute of Graduate Studies and Research, Alexandria University
  + Trouble shooting in Gas Chromatography, 2013, Institute of Graduate Studies and Research, Alexandria University

**Selected Academic/Professional Activities**

* Participated in British Biochemical Society meeting (Bioenergetics Group), 1985
* Participated in Plant Physiology Meeting, New Mexico, USA, 1991
* Participated in FAO/IAEA/UNEP consultation Meeting on the fungicides pilot survey, Ioannina, Greece, May, 1993
* A Referee in the Supreme Scientific Permanent Committee for the evaluation of Professorship and Assistant Professorship in plant protection and plant diseases, Egyptian Universities. (2008-2012, 2013-2015 and 2016-2019).
* A member of Agricultural Pesticide Committee, Ministry of Agriculture and Land Reclamation, Arab Republic of Egypt, 2011 - Present
* A technical coordinating team of the project "Rapid detection and removal techniques of pesticide residues from fruits and vegetables". Department of Pesticide Chemistry and Technology, Faculty of Agriculture, El-Shatby, Alexandria University. Supported by Alexandria

University, Scientific Research Fund, Research Enhancement

Program, Alex REP (2011-2014).

* Peer Reviewer for a research proposal: Science and Technology Development Fund (STDF), Ministry of State for Scientific Research, Egypt. ID: 372, 2009 – Present.
* Reviewer/Editorial Member, Research in Environmental Science and Toxicology Journal, 2012 - Present.
* Head of the Laboratories Central, Institute of Graduate Studies & Research, Alexandria University, 2012 – present.
* Participated in chairing the sessions of the International Conference Towards Sustainable Environment, Alexandria, Egypt, 11-12 August, 2014.

**Teaching and evaluation** of postgraduate students in the subjects of

* Principles of Ecotoxicology
* Environmental Toxicology
* Pesticides, Environment, and human Health
* Environmental measurements
* Environmental chemistry
* Principles of Applied Ecology
* Applied Ecology (Advanced)
* Bioenergetics
* Biochemistry
* Pesticides residues analysis
* Biochemical analyses
* Methods in Aquatic toxicology testing
* Advanced toxicology
* Solutions to Environmental Problems.
* Ecological Risk Assessment

**SUPERVISED THESES and DIPLOMA**

**I have supervised the following:**

Ph.D. Thesis (22)

M.Sc. Thesis (51)

Diploma: (50)

**CURRENT Ph.D. and M.Sc. STUDENTS**

Supervision in collaboration with others, of more than 30 M.Sc and 5 Ph.D projects in the fields of Environmental studies and Biotechnology in Institute of Graduate Studies and Research, Alexandria University.

**EVALUATED THESES**

M.Sc Thesis: (79) & Ph.D Thesis: (22) in Environmental Studies, Biotechnology, Pesticide Chemistry and Toxicology, Environmental Sciences, Chemistry and Zoology in Egyptian Universities.

**AWARRD Received**

* Alexandria University Award for Scientific Encouregement,1996.
* Alexandria University Award for Management Excellent, 2010.
* Alexandria University Award for Appreciation, 2016.

**ACADEMIC PUBLICATIONS & CONFERENCES**

1. Younis, H.M., Abdel-Ghany, M.E. and **Ibrahim, H.Z.** (1983). Interaction of DDT with insect mitochondrial adenosine triphosphatase: Correlation between the inhibition of the enzyme activity and the mode of action of DDT. Proc. 5th Arab Pesticide Conf. Tanta Univ., Egypt, Vol. II: 279 – 286.
2. Younis, H. M., **Ibrahim, H. Z**., El-Mahdy, A. R. and Abdel-Ghany, m. E. (1983). Interaction of DDT with insect mitochondrial ATPase. III. The role of phospholipids. Proc. 5th Arab Pesticide Conf. Tanta University. Sept. Vol. II: 85-86.
3. Younis, H.M. and **Ibrahim, H.Z.** (1988). The role of phospholipid composition of insect mitochondria in the selective inhibition of their ATPase activity by the insecticide DDT. 5th Proc. European Bioenergetics Conf., Aberystwyth, p. 236.
4. Bayoumi, O.C. and **Ibrahim, H.Z.** (1988). Determination of carbosulfan and its two major metabolites in water and their toxic effects against *Culex pipiens* and Tilapia zilli. Med. Fac. Landbouw. Rijksuniv. Gent, Belgium, 53/3b: 1471 – 1475.
5. Madkour, S.A. and **Ibrahim, H.Z.** (1991). The plasma membrane proton-translocating adenosine triphosphatase from spinach leaves. I: Partial purification of plasma membrane vesicles and enzyme characterization. J. Agric. Sci., Mansoura Univ. 16(1): 97 – 106.
6. **Ibrahim, H.Z.** and Madkour, S.A. (1991). The plasma membrane proton –translocating adenosine triphosphatase from spinach leaves. II: Effects of N, N-dicyclohexylcarbodiimide, vandate, nitrate, sodium fluoride, rotenone and endrin. J. Agric. Sci., Mansoura Univ. 16(1): 107 – 114.
7. Madkour, S.A. and **Ibrahim, H.Z.** (1991). The plasma membrane proton – translocating adenosine triphosphatase from spinach leaves. III: Flouride inhibition and possible role of magnesium and phosphorus. J. Environ. Sci., Mansoura Univ., 3: 259 – 276.
8. **Ibrahim, H.Z.** and Madkour, S.A. (1991). The plasma membrane proton –translocating adenosine triphosphatase from spinach leaves. IV: Effect of fentin hydroxide, carbendazim, parinol and biphenyl. J. Environ. Sci., Mansoura Univ., 3: 277 – 291.
9. **Ibrahim, H.Z.** (1991). Effects of inhibitors and herbicides on the ATPase activity of pea cotyledon mitochondria and soluble ATPase. J. Agric. Sci., Mansoura Univ., 16(9): 2160 – 2169.
10. **Ibrahim, H.Z.** (1991). Effects of endosulfan, triphenyltin acetate, thiodicarb and lambda-cyhalothrin on the activity of some enzymes in the catfish *Ictalurus puctatus* tissues. J. Pest Control & Environ. Sci., Alexandria Univ. 3(2): 114 – 126.
11. Cerutti, H., **Ibrahim, H.Z.** and Jagendorf, A.T. (1993). Treatment of pea(Pisum sativum L.) protoblasts with DNA-damedging agents induces a 39-kilodalton chloroplast protein immunologically related to Escerchia coli RecA. Plant Physiol. 102: 155 – 163.
12. **Ibrahim, H.Z.** and El-Kassabany, S.A. (1995). Energy transducing proton translocating adenosine triphosphatase of pea cotyledons mitochondria. Isolation and sensitivity to herbicides. Menofiya J. Agric. Res. 20(2): 675 – 687.
13. **Ibrahim, H.Z.** and El-Kassabany, S.A. (1995). Inhibition and recovery of selected target enzyme activities in blood serum and tissues of catfish, exposed to some insecticides. Menofiya J. Agric. Res. 20(2): 689 – 699.
14. Yousef, M.I., Salem, M.H., **Ibrahim, H.Z.**, Helmi, S., Seehy, M.A. and bertheussen, K. (1995). Toxic effect of carbofuran and glyphosate on semen characteristics in rabbits. J. Environ. Sci. Health, B30 (4): 513 – 534.
15. **Ibrahim, H.Z.** and El-Kassabany, S.A. (1995). Effects of thiobencarb and paraquat on some rat liver membrane enzymes. Menofiya J. Agric. Res. 20(3): 1153 – 1169.
16. Yousef, M.I., Berthussen, K., **Ibrahim, H.Z.**, helmi, S., Seehy, M.A. and Salem, M.H. (1996). A sensitive rabbit sperm test for the assessment of cytotoxic effect of pesticides. J. Environ. Sci. Health, B31 (1): 99 – 115.
17. Khairy, A.H., Davies, G., **Ibrahim, H.Z.** and Ghabbour, E.A. (1996). Adsorption of aqueous nucleobases, nucleosides, and nucleotides on compost-derived humic acid. I. Natutally occurring pyrimidines. J. Phys. Chem. 100, 2410 – 2416.
18. Khairy, A.H., Davies, G., **Ibrahim, H.Z.** and Ghabbour, E.A. (1996). Adsorption of aqueous nucleobases, nucleosides and nucleotides on compost-derived humic acid. II. Natutally occurring purines. J. Phys. Chem. 100, 2417 – 2421.
19. **Ibrahim, H.Z.** (1996). Effects of pyrethroids on Ca2++Mg2+ ATPase activity on the rabbit brain. Alex. J. Phar. Sci. 10: 209 – 214.
20. **Ibrahim, H.Z.** (1996). Inhibition of plant mitochondrial activities by herbicides. Alex. J. Agric. Res. 41(3): 217 – 224.
21. Davies, G., Ghabbour, E.A., Khairy, A.H. and **Ibrahim, H.Z.** (1996). A model for adsorption on humic acids. The 8th meeting of the International Humic Substances Society (IHSS), in Warsow, Poland, September, 9 – 14 (Eight IHSS Proceeding Papers).
22. Davies, G., Ghabbour, E.A., Khairy, A.H. and **Ibrahim, H.Z.** (1997). A "Site Creation" model for specific adsorption of aqueous nucleobases, nucleosides, and nucleotides on compost-derived humic acid. J. Phys. Chem. 101: 3228 – 3239.
23. Younis, H.M., Abdel-Razek, R.K., Abo-El-Saad, **Ibrahim, H.Z.** and Abo-Seda, S.A. (1997). Purification and properties of F0F1 ATPase complex from insect mitochondria selectively inhibited by the insecticide DDT. The FASEB Journal July 31, 1997 Vol: 9, A992, Abstract no: 792.
24. Yousef, M.I., **Ibrahim, H.Z.**, Yacout, M.H.M. and Hassan, A. A. (1998). Effect of cypermethrin and dimethoate on some physiological and biochemical parameters in Barki sheep. Egyptian J. Nutrition and Feeds. 1 (1): 41-52.
25. **Ibrahim, H.Z.**, Kheir, R., Helmi, S., Lewis J. and Crane, M. (1998). Effects of organophosphorus, carbamate, pyrethroid and organochlorine pesticides, and a heavy metal on survival and

cholinesterase activity of *Chironomus riparius* Meigen. Bull. Environ.

Contam. Toxicol. 60: 448 – 455.

1. Abbassy, M.S., **Ibrahim, H.Z.** and Abu El-Amayem, M.M. (1999). Occurrence of pesticides and polychlorinated biphenyls in water of the Nile River at the estuaries of Rosetta and Damietta branches, North of Delta, Egypt. J. Environ. Sci. Health, B34 (2): 255 – 267.
2. Yousef, M.I., El Hendy, H.A., Yacout, M.H.M. and **Ibrahim, H.Z.** (1999). Changes in some heamatological and biochemical parameters of rats induced by pesticides residues in mutton. Alex. J. Agric. Res. 44(2): 101 – 114.
3. Yousef, M.I., **Ibrahim, H.Z.**, Salem, M.H.; Hassan, G.A.; Helmi, S. and Bertheussen, K. (1999). Hematological and biochemical changes induced by carbofuran and glyphosate in rabbits. Environmental & Nutritional Interactions. 3(3): 179-194.
4. El-Aassar, I.A., Mahmoud, M. N., Hassouna, M. S., **Ibrahim, H.Z**, and Moletta, R. (1999). Effect of thermal pre-treatment of secondary treatment sewage sludge on repeated fed-batch anaerobic digestion process. International Conference on Environmental Management, Health and Sustainable Development, 22-25 March, Alexandria, Egypt.
5. Salem, S.F.E., El-Aassar, I.A., **Ibrahim, H.Z**., and Hassouna, M.S.E. (1999). Biogas production from agro-industrial waste. International Conference on Environmental Management, Health and Sustainable Development, 22-25 March, Alexandria, Egypt.
6. Kheir, R.; **Ibrahim, H.Z.**, Lewis, J.W., Callaghan, A., and Crane, M. (2001). Comparison of acetylcholinesterase and glutathione S-transferase activity in *Chironomus riparius* Meigen exposed to chemical-spiked sediments. Bull. Environ. Contam. Toxicol. 66, 603-610.
7. Yousef, M.I., **Ibrahim, H.Z.**, Yacout, M. H. M. and Hassan, A. A. (2002). Effects of lindane and zinc on reproductive performance of rabbits. 9 th International Symposium on Spermatology, Cape Town, South Africa, October 6-11.
8. Hassan, A. A., Yacout, M. H. M., **Ibrahim, H.Z**, and Yousef, M.I. (2002). Feeding rabbits on diet contaminated with lindane, zinc, and their combination. 1- Effect on growth performance. The 3rd Scientific Conference on rabbit production in hot climate. October 8-11. Hurghada, Egypt. pp. 751-764.
9. Abbasy, M.S., **Ibrahim, H.Z.** and Abdel-Kader, H.M. (2003). Persistent organochlorine pollutants in the aquatic ecosystem of Lake Manzala, Egypt. Bull. Environ. Contam. Toxicol. 70: 1158 -1167.
10. Leung, K.M.Y, **Ibrahim, H.Z**, Dewhurst, R.E. Morley, N. J., Crane M. and Lewis.J.W. (2003). Concentrations of metallothionein-like proteins and heavy metals in the freshwater snail *Lymnaea stagnalis* exposed to different levels of water borne cadmium. Bull. Environ. Contam. Toxicol. 71: 1084 -1090.
11. Hassan, A. A., Yacout, M. H. M., **Ibrahim, H.Z**, and Yousef, M.I. (2005). Feeding rabbits on diet contaminated with lindane, zinc, and their combination. 2- effect on hematological and biochemical parameters. The 4th Scientific Conference on rabbit production in hot climate. Feburary 24-27. Sharm, Egypt. pp. 645-654.
12. **Ibrahim, H.Z.** and El-Kassabany, S.A. (2005). Biochemical alterations in certain tissues of Freshwater prawn *Macrobrachium rosenbergii*De Man exposed to permethrin. Zagazig J. Agric. Res., 32 (3), 963-977.
13. **Ibrahim, H.Z.** and El-Kassabany, S.A. (2005). Effect of atrazine on the toxicity of some organophosphorus insecticides to *Chironomus riparius* (Diptera): Chironomidae.Zagazig J. Agric. Res., 32 (3), 979-989.
14. El-Bestawy, E. and **Ibrahim, H.Z.** (2005). Bioremediation of carbofuran from contaminated media using soil bacteria. Assiut University J. of Botany. 34 (2): 181-195.
15. Prenner, M.M, **Ibrahim, H.Z**, Lewis, J.W and Crane, M. (2006). Toxicity and trace metal concentrations of sediments from Lake Maryut, Alexandria, Egypt. Bull. Environ. Contam. Toxicol. 77 (4), 616-623.
16. **Ibrahim, H. Z.** (2008). Ecotoxicology: An overview. Conference on IncoEcology. 2-4 November, Alexandria, Egypt.
17. **Ibrahim, H.Z.** and Asran, W. (2010). Monitoring and modeling of total trihalomethane compounds formation in a water treatment plant in EL-Behira Governorate, Egypt. J. Adv. Agric. Res. (Fac. Ag. Saba Basha). 15: (3), 831-847.
18. Hassan, A.A, Khaled, M.S, Shwerab, A.M, Yacout, M.H, Borhami, B.E.E, and **Ibrahim, H.Z.** (2010). Microbial degradation of pesticides residues in tomato haulms and their effects on performance of dairy scows. Egyptian J. Nutrition and Feeds. 13 (3), 485-505.
19. Hassan, M. Younis, Shfika, A. El-Kassabany and **Hesham, Z. Ibrahim** (2013). Inhibition of chloroplast ATPase activity by cyanazine and simazine herbicides. The Egyptian Science Magazine. 8 (2): 24-28.
20. **Ibrahim, H. Z.,** and M.M. Shanab. (2013). Monitoring of some disinfection by-products in drinking water treatment plants of El-Beheira Governorate, Egypt. Appl. Water. Sci. 3: 733-740.
21. **Ibrahim, H. Z.,** and M.M. Kholeif. (2013). Monitoring of some quality parameters of drinking water treatment plant in El-Beheira Governorate, Egypt. J. Adv. Agric. Res. (Fac. Agric. Saba Basha). 18 (2), 216-227.
22. Sh. Ebrahim, R. EL-Raey, **H. Ibrahim**, and M. Soliman. (2013). A novel chloropyrifos electrochemical sensor based on polyaniline nanofibers. The 3rd International conference on materials and applications for sensors and transducers, IC- MAST.
23. Shaker Ebrahim, Radwa El-Raey, Ahmed Hefnawy, **Hesham Ibrahim**, Moataz Soliman, Tarek M. Abdel-Fattah (2014). Electrochemical sensor based on polyaniline nanofibers for detection of malathion. Synthetic Metals, 190: 13-19.
24. Sh. Ebrahim, R. El-Raey, A. Hefnawy, **H. Ibrahim,** M. Soliman (2014). A Novel Chloropyrifos Electrochemical Sensor Based on Polyaniline/Carbon Nanotubes Composite. Key Engineering Materials Vol. 605, 99-102.
25. **Ibrahim, H. Z.,** Heba A.G. Mohammed and Afaf M. Hafez(2014).Physicochemical properties of some bottled water brands in Alexandria Governorate, Egypt. Journal of the Egyptian Public Health Association, 89: 60-65.
26. **Ibrahim, H. Z. (2014).** A review of climate change impacts on pests and pesticide use. www. arca-eg.org/images/working papers series No.3,1-33
27. Sh. Ebrahim, A. Shokry, W. Ramadan, **H. Ibrahim**, and M. Soliman. (2014). Using magnetic nanocomposites for removal of some heavy metals from aquatic environment. The 15th Arab International Conference of Materials Science "Materials for Water Applications" 2-4 December 2014, Alexandria, Egypt.
28. Mohamed A. Korany, **Hesham Z. Ibrahim,** Marwa A. A. Ragab, Mervat A. Abdel-Kawi and Abd Aal A. A. Sayed. (2015). Derivative-fourier transforms-polynomial fit : a coupling of interest in common non-ideal cases arises during trace metal analysis using graphite furnace atomic absorption spectrometry. The Royal Society of Chemistry. RSC Adv., 5, 47866-47875. DOI: 10.1039/c5ra06283g.
29. **Hesham Z. Ibrahim** and Mahmoud A. Abu-Shana. (2015). Effects of household handling on disinfection by-products. Journal of Natural Resources and Development. 05: 71 - 75

55. A.Y. El-Moghazy, E.A. Soliman, **H.Z. Ibrahim,** T. Noguer, J.L.

Marty, and G. Istamboulie **(2016).** "Ultra-sensitive biosensor based

on genetically engineered acetylcholinesterase immobilized in poly

(vinyl alcohol)/Fe-Ni alloy nanocomposite for phosmet detection in

olive oil". Food Chemistry 203: 73-78

56. Shaker Ebrahim, Azza Shokry, **Hesham Ibrahim,** and Moataz

Soliman. (2016). Polyaniline/Akaganéite Nanocomposite for

Detoxification of Noxious Cr(VI) from Aquatic Environment.

Journal of Polymer Research. 23: 79, 1-11

57.A.Y. El-Moghazy , E.A. Soliman , **H.Z. Ibrahim ,** J.-L. Marty, G.

Istamboulie, T. Noguer. (2016). Biosensor based on

electrospun blended chitosan-poly (vinyl alcohol) nanofibrous

enzymatically sensitized membranes for pirimiphos methyl

detection in olive oil. Talanta 155: 258-264

58. Ibrahim. H. I. Saleh, Amira. M. El Naggar, A., **Hesham. Z.**

**Ibrahim.** (2016). Risk assessment of radionuclides in

ground water in Siwa Oasis, Egypt.International Journal of

Advances Research. 4 (11), 1459-1466.

59. **Hesham Zaki Ibrahim**, Abd-Allah M. Hamed, Mona Sh. Abdou,

Reda, K. Abdel-Razik,and Nadia A. Hamed. (2016). Toxicity of

alpha-cypermethrin, emamectin benzoate and imidacloprid on

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