

B i o t a
Dr. Farhad H. Aziz
Biology Department
College of Science Dept. of Environment, Salahaddin University – Hawler/Iraq

Place and Birth date, Erbil, 1948.

B.Sc., 1972, Science, Agriculture / plant production, Sulaimaniyah

D.M. Univ., Iraq. 1977, Science, Agriculture / agricultural marketing, Sofia
Instituent, Bulgaria.

M.Sc 1985, Science , Biology, School of Plant Biology .U.C.N.W. Bangor-Cardiff Univ.,
U.K.

Ph. D. 1997, Science, Biology / Phycology and Ecology Salahaddin Univ.- Hawler, Kurdistan
Region, Iraq.

Graduation degrees:

Assist. Lectural 1986.

Lecural 1989

Assis.t Prof. 1997

Prof. 27/ 4 /2012

Publications of Thesis :

1-Farhad H. Aziz (1985). Crop ecology with particular reference to competition
within two species crop mixture, M.Sc., Thesis, Science, Biology, School of
Plant Biology, U.C.N.W., Bangor-Cardiff, U.K.

2-Farhad H. Aziz (1997). A Phycological Study with Particular Reference to
Rawanduz River Path, within Arbil province, Arbil, Iraq.

Books :1- Algae and algal flora of Kurdistan Region-Iraq(Under publication)

2- Ecology and pollution in Kurdish language (Under publication)

Translation two books from English to Arabic with Prof. Dr. Karim Salih Abdul:

1-Crop physiology-1987.

2-Introduction to plant population Ecology -1990.

Scientific Reports :

A- Many scientific reports have been published in Agricultural Scientific Seasonal
Magazine of Ministry of Agriculture and Irrigation, Iraqi Kurdistan Region, Iraq as :

1. Leafless pea plant: No.3, 13-16, June 1998.

2. Ecological status of Iraqi Kurdistan region, No.5, 14-18, Oct., 1998.
3. Water, food and world population No.6, 15-17, 2000.
4. The important of intercropping No.7, 2000.
5. The growth and nutritional values of *Gundelia tournefortii*. No.8, 11- 12- 2001.
6. Agricultural waste pollution: Sources and solutions. Agriculture Magazin No.11,16-16 (2002)

B- Many other papers published in Kurdish language

Published Papers:

1. Farhad H. Aziz and Abdul, S. Karim (1987). The concept of a Relative Yield Advantages from intercropping. Iraq J. of Agr. Sci. Zanco 5, (3):33-70.
2. Farhad H. Aziz and Abdul, S. Karim (1987). The response of leafless pea to Northern Iraqi conditions. 1-Effects of date of sowing and densities. Zanco, The Scientific J. of Salahaddin Univ.-Erbil, Iraq. 2(1):31-48.
3. Farhad H. Aziz; Abdul S. Karim and Salih, J. Tahsin (1989). The response of leafless pea to northern Iraqi conditions. 2-Effects of autumn and spring sowings. Zanco. The Scientific J. of Salahaddin Univ.- Erbil, Iraq. 2, (3):31 -41.
4. Mahdi S. Abdul-Khaliq, Farhad H. Aziz and Abdul Rahman A. Dilshad (1990). Ecological study of Zab basin river vegetation and it's vicinity of Asky-Kalak region, Erbil. The Journal of the College of Education, Salahaddin Univ. Erbil, Iraq. 2(2): 192-201. (in Arabic).
5. Mahdi S. Abdul-Khaliq, Farhad H. Aziz (19-91). Plant species distribution at Kasnazan, Dropa Arbil. The Journal of the College of Education Salahaddin Univ.-Erbil, Iraq. 2(3): 18-32. (in Arabic, translated to English).
6. Farhad, H. Aziz and Mahdi S. Abdul-Khaliq. Shoot and root competition between wheat and Syrian cephalaria at four densities. Zanco. The Scientific J. of Salahaddin Univ.-Erbil, Iraq. 4(4): 5-17. (Printed in 1997).
7. Farhad , H. Aziz and Wali, M. Shahab (1991). The effect of plant density and N.P.K. on growth and yield of leafless pea plant. Zanco. The Scientific J. of Salahaddin Univ.-Erbil, Iraq. 2(4): 35-51. (Printed in 1997).
8. Tahsin, J. Sali; Khali, H. Mohammad and Farhad, H. Aziz (1991). Effect of N.P.K. fertilizer and growth retardant Dikegulac on the growth, and flowering of Snapdragon plants, *Antirrhinum majus*. Zanco. The Scientific J. of Salahaddin

Univ.-Erbil, Iraq. 4(3):35-44. (Printed in 1997).

9. Farhad H. Aziz (1991). Studies on the effect of timing of fertilizer addition on the competition within and between wheat and Syrian cephalaria at different plant densities. Zanco. The Scientific J. of Salahaddin Univ.-Erbil, Iraq. 4(3):35-56. (Printed in 1997).
10. Farhad H. Aziz and Mahdi S. Abdul-Khaliq (1992). Shoot and root competition between Barley and leafless pea at different population densities. Zanco, Scientific J. of Salahaddin Univ.- Erbil, Iraq. 5(1): 32-45. (Printed in 1996).
11. Farhad H. Aziz (1992). Studies on mixture of barley and peas at different plant densities. Zanco. The Scientific J. of Salahaddin Univ.- Erbil, Iraq. 5(2):23-34. (Printed in 1998, In Arabic).
12. Farhad H. Aziz, Al-Jaf M. Dara and Walii A.Shahab (1997). Studies on competition between wheat and Syrian cephalaria with it's control by 2,4-D and hand cutting. Zanco, the J. of Pure and Appl. Sci., Salahaddin Univ.- Erbil, Iraq, 9, (1):32-45. (in Arabic).
13. Maulood B.K and Farhad H. Aziz (1997). A new attempt for publishing keys of taxonomy. 1-Identification of filamentous green algae in Kurdistan of Iraq. Zanco, Special issue Proceeding of Third Scientific Conference of Salahaddin Univ.- Erbil, Iraq (1):75-108.
14. Farhad H. Aziz (1997). Competition among four wheat cultivars grown in all possible mixture combination (Harama). Zanco. The special Issue Proceeding of Third Scientific Conference. Scientific J. of Salahaddin Univ.- Erbil, Iraq. (2): 5-8.
15. Farhad H. Aziz (1999). Studies on vegetation cover and some ecological factors on plant distribution at Hanara region within Erbil province. Zanco Sci. J. of Salahaddin Univ.-Erbil in 1999, Special No., 133-101.
16. Farhad H. Aziz and B.K. Maulood (2001). Studies on algal species surviving in Iraqi Kurdistan region. 1-Identification of non-filamentous green algae with exception of desmidaceae, Sci. J. of Dohuk Univ. 4(2): 153-164.
17. Maulood B.K. and Farhad H. Aziz (1999). Studies on algal species surviving in Iraqi Kurdistan region. 2-Identification of Desmidiaceae. Sci. J. of Pure and Appl. Sci., Dohuk Univ., Iraq.

18. Farhad H. Aziz (1999). A new attempt for publishing key of taxonomy. 4- Identification of blue-green algae (Chroococcales and Chamaesiphonales) (Sci J. of Pure and Appl. Sci., Dohuk Univ., Iraq, (First Scientific Conference). 2,2,231-255.
19. Maulood B.K. and Farhad H. Aziz (2007). Studies on algal species surviving in Iraqi Kurdistan region. 6-Identification of blue-green algae (Nostocales). Sci. J. of Bablioni Univ. 13(3)....
20. Farhad H. Aziz (2007). Studies on algal species surviving in Iraqi Kurdistan region. 5- Identification of blue-green algae (Oscillatoriales). Sci. J. of Bablioni Univ. 14(3)78-98.
21. Dilshad G.A. Ganjo and Farhad H. Aziz (1999). Limnology and phytoplankton ecology of Korre and Shaqlawa courses, 1- Water mineralization and nutrient status relation, Erbil, Iraq. Sci. J. Dohuk University Dohuk (First Scientific Conference), Dohuk Univ., 5(2): 213-230.
22. Dilshad G.A. Ganjo and Farhad H. Aziz (1999). Limnology and phytoplankton ecology of Korre and Shaqlawa courses, Erbil, Iraq. II. Planktonic algal community responses to Normal heavy metals content (Fe, Cu, Zn and Cd). Sci. J. of Dohuk Univ. 5(2): 85-94.
23. Farhad H. Aziz and Dilshad A. Ganjo (2002). Nutrient status and algal flora in the Halgurd (Hasarost) mountain area within Erbil, Iraq. Zanco, Sci. J. of Dohuk University. 5(2): 1-12.
24. Farhad H. Aziz; Saeed, J.F. and Sabbo, N.H (2000). The preliminary study on growth and nutritional value of *Gundelia tournefortii*. Zanco, Sci. J. of Pure and Appl. Sci. Salahaddin- Erbil Univ. L. 1 (2):39-48.
25. Farhad H. Aziz; Suhialla N. Darokha and Yahya A. Shekha (2001). Ecological and microbiological studies of Erbil City's Sewage. Scientific Water Conference Brayeti Center 189-206, 14-15 Feb., 2001 Erbil, Iraqi Kurdistan Region, Iraq.
26. Farhad H. Aziz; Umran H. Kunbar and Wand Kh. Ali (2001). The effect of some air pollutants and the existence of *Aphis nerii* on the chlorophyll contents of *Nerium oleander* leave plants in roadside of Erbil city. Zanco, the Scientific J. of pure and appl. Sci. Salahaddin Univ.-Erbil, Iraq. 13, (1): 43-52.
27. Farhad H. Aziz and Dilshad G.A. Ganjo (2004). Observations on the ecology and Limnology in Permanent Polluted Pond in Erbil city. The Scientific J. of Pure and Appl. Sci. Salahaddin Univ.-Erbil, Iraq. 16(1): 43-52.

28. Farhad H. Aziz (2007). Changes in Epilithic Algae in response to some physicochemical factors in Mountainous stream. Sci. J. of Babylon Univ., 13(3): 9.5 – 917.
29. Farhad H. Aziz (2005). Observation in lichens of mountainous area within Erbil-province Iraqi Kurdistan region, Iraq. 1- In Safm, Jundian, Kawlokan and Haji Omaran areas, mountain area. Zanco, The Sci. J. of Pure and Appl. Sci. Salahaddin Univ.-Erbil, Iraq. 16(5): 1-19.
30. Farhad H. Aziz (2004). Observation in lichens of mountainous area within Erbil-province Iraqi Kurdistan region, Iraq. 2- In Hassan - Beg mountain area. Zanco. The Sci. J. of Pure and Appl. Sci. Salahaddin Univ.-Erbil, Iraq. 17(2): 89-117.
31. Ganjo, D.G.A., Aziz, F.H. and Shekha, Y.A. (2006). An attempt for reuse of the waste water of Erbil city for irrigation purpose. Erbil, Kurdistan Region of Iraq. Zanco. The Sci. J. of Pure and Appl. Sci. Salahaddin Univ.-Erbil, Iraq. 18(2):148-175..
32. Kawa, A. A, and Aziz, F.H. (2002). Studying the effect of root and shoot extracts of *Syrian cephalaria* (*Cephalaria syriaca*) on wheat (*Triticum aestivum*) germination properties. Zanco. The Sci. J. of Pure and Appl. Sci. Salahaddin Univ.-Erbil, Iraq. 14(2): 15-24 (in Arabic).
33. Aziz, F.H. and Saeed, J.F. (2006). Observation in lichens flora of mountainous area within Erbil-province Iraqi Kurdistan region, Iraq. 3- In Karajugh mountain and foothill area. Sci. J. of Anbar Univ.....
34. Mohammad, S. F. and Aziz, F. H. (2006). Some air pollutants on human health in Arbil city. Zanco. The Sci. J. of Pure and Appl. Sci. Salahaddin Univ.-Erbil, Iraq. 18(2): 134-147.
35. Mohammad, S. F. and Aziz, F. H. (2009). The assessment of roadside pollutants and its impact on metals and Chlorophyll content of *Nerium oleander L.* and *Phragmites australis L.* in Erbil city . Proceeding of the First Scientific Conference College of Science 29-30 September. Tikrit University. Pp 12 -24
36. Farhad H. Aziz (2008). The effect of soil depth accumulation, fertilization and time on growth and yield of *Gundellia tournefortii* L. 2 (11):1-17.
37. Farhad H. Aziz (2009). Algal assemblages as biological indicators for freshwater Quality Assessment Zanco .J. of pure applied Sci. Salahaddin Sci. j. of Duhok Univ. 12 (1): 15-20.
38. Farhad H. Aziz (2008). Further contribution of algae in higher mountain areas to Iraqi Flora Zanco .J of pure and applied Sci. Salahaddin Sci. J. of Duhok University. 4(20):63-82.
39. Farhad H. Aziz (2010): Six new records of hepatophyta (liverworts) to Iraqi flora. Sci. J.

Duhok Univ. 13 (1): 86Seventeen spp. New records for the mosses flora of Iraq.
Phyton International J. Experimental Botany. Argentina . 80 : 35-46

40. Farhad H. Aziz (2012): Check list of algal flora recorded in Iraqi Kurdistan Region (Zanco, Sci. J of Salahaddin University, J of Salahaddin University for Pure and Applied Science . Zanco, J. for Pure and Applied Science. Salahaddin-Erbil Univ. Zanco J. of Pure and Applied Science. Salanaddin Univ. 23(3): 31-72.

41. Farhad H. Aziz and Abdulwahid S. J. (2011). Phycological studies of spring water sources in Harir subdistrict (First Biological Conference, Kirkuk University 20-21-April, 2011).Sci. J. Kirkuk University6(3): 1147-1153.

42 Farhad H. Aziz and Fareed H. Toma (2012): First attempt for collection and identification of mushroom in Kurdistan -Iraq. Journal AdvancedLaboratory Research in Biology on line .16.05.2012, Ref. No.JALRB-S015 (03). Website : www.jalrb.org (ISSN o976-7641). Vol.III, ISSUE II, April 2012.

43. Farhad H. Aziz. And Abdulwahid, S.A.((2012): Data base for evaluation of water quality standards of Kurdistan –Iraq.The International Journal of the Environment and Water .The Euro-Arab Organization for Environment, Water and Desert Researches.Vol.1 ,Issue 1, 2012, Antalya.

44. Farhad, H. Aziz and Al-Dabagh, J.A. (2012). Evalution of indoor and out door dust deposition in Erbil province as environmental pollution. Edit by J.W.S. Longhurst and C.A.Brebbia. Air pollution XX Conference, Wessex Tecnical Institute, La Corona. Wit. Press, UK. Pp 351-363.

45. Abdulwahid, S,J. and Farhad H. Aziz (2012). Algae in spring water sources in mountain area withiin Harir subdistrict, Erbil, Iraq. J Tikrit Univ. Appl. Science NO.57.....

46. Farhad, H. Aziz (2012). Shoot and root competition between wheat *Triticum aesitivum* and Wild Oat *Avena fatua* in the field (*in Arabic*).....
.....

47. Farhad H. Aziz; Kakil,N.A. and Muhamad, B.A. (2012). Effect of plant

density on competition between soft wheat *Triticum aestivum* and wild Out *Avena fatua* in pot experiment. (in Arabic).

48. Farhad, H. Aziz (2012). New record of the genus *Porphyridium purpureum* from Kurdistan. Jurnal of life Science, USA, Print ISSN:1934-7391. Online ISSN:1934-7457.....(...Accepted, 27.8.2013).

49. Farhad H. Aziz (2012). Ecological study and heavy metal content of aquatic plant *Mycriophyllum spicatum* new to Kurdistan, Erbil, Iraq.....

50. Farhad, H. Aziz (2012). Studies on blue green algae *Glaucospira* new to Iraqi Flora.

51. Farhad H. Aziz (2013). Standardized index model for drinking water quality monitoring and comparison.

Lacturul in the following courses

1. Ecology and pollution for B. Sc. students.
2. Algae and cryptogamy for B. Sc. students.
3. Aadvanced limnology for B. Sc. and M. Sc.
4. Plant population ecology for M.Sc. and Ph.D. students.
5. Micro algae for Ph.D. student.
6. Ecological indicator for Ph. D. students.
7. Ecological toxicity for Ph. D. students.
- 8-Solid waste management and environmental health for B. Sc. students.
- 9- Sampling strategy for Ph. D. students.
- 10-Plant population ecology.

Supper advisor for M.Sc. and Ph.D students ;

1. Kawa, A.A. (2001). Studies on Interference between wheat and syrian cephalaria with particular reference to competition and allelopathy.
2. Loai Abdul Kader (2002). Algal study in sewage water within Arbil city.
3. Samera F. Mohammed (2003). Effects of some air pollutants on plant growth and human health within Erbil City.
4. Kamal S. Ahmad (2004). The competition studies between wheat and weed (wild mustard).

Plant Production Dept College of Agriculture. Salahaddin Univ. Kurdistan-Iraq.

5. Abdulla H.A. Bilbas (2004). Phycolimnological study in some springs within Erbil province. Biology Dept. Science Education College. Salahaddin Univ. Kurdistan-Iraq.
6. Sami Mohammad Amin Marof (2007). Competition between Critical and wheat under two different Environmental conditions Ph D Thesis College of Agriculture, Salahaddin Univ. Kurdistan Region Iraq.
7. Beriwan Abdul-Qadir Ali Sofi (2007). An Ecological study on the main sewage channel of Erbil city with particular reference to self purification .Science
8. Rezan Omer Rasheed (2008). Evaluation of heavy metals and poly aromatic hydrocarbons in water, fish and sediments within Derbendikhan reservoir Ph.D Thesis, College of Science Sulaimani University. Kurdistan-Iraq.
9. Samiaa Jamil Abdulwahid (2008). A phyco-limnological study on some springs within harir subdistrict. Hawler, Iraqi Kurdistan Region. M.Sc. Thesis, Science Education College, Salahaddin University. Kurdistan Region Iraq.
10. Jwan Jalal Dabagh (2009) Acid rain and dust pollution within Erbil city. MSc. Thesis, College of Science, Salahaddin University-Erbil
11. Fakhir A.Q. Zewayee (2011). A Phycolimnological study in some springs and streams within Erbil province. M. Sc. Thesis Biology Dept. Science Education College. Salahaddin- Erbil Univ., Kurdistan Region Iraq.
- 12- Abdul Aziz Abdulmamid Mustafa(2012). Ecological interaction studies between Soft wheat *Triticum aestivum* and wild Oat *Avena fatua* M.Sc. Thesis College of iculture, Salahaddin Univ.- Erbil, Kurdistan Region-Iraq.
13. Balqes, (Darbandi) B. H. R. (2013). Studies of algal communities and some environmental parameters in six ponds within Quer areanear Greater Zab river, Iraq. M.Sc.Thesis Salahaddin- Erbil University Kurdistan Region Iraq.

Membership of Professional Bodies:

1. Membership of Kurdistan Agricultural Engineers Union.
2. Membership of Kurdistan Teachers Union.
- 3- Membership of Cultural Center of Salahaddin Univ.
- 4- Membership of Kurdistan Biology Union.
- 5- Nature of Iraq Group.

Conferences:

1. Salahaddin Univ., 1997. 2nd Scientific Conference
2. Duhok Univ., 1999. First Scientific Conference
3. Erbil Water Conference, Aprill, 2002;
4. Tanta Univ., Egypt, 2007. 4th Biology Conference
5. Kalkutta Univ. India, 2007. 4th International Environmental Scientific Conference.
6. Tikrit Univ. Conference. First Biological Conference August. 2009.
7. Kirkuk Univ. First Biology Conference , April, 2011.
8. Salahaddin Univ. 4th International Scientific Conference, October 2012.
9. Aspania , Air pollution, 8th Conference, Sussex Instutint. May- 2011
10. Antalya , Turkia, 4th Environmental Conference.Oct. 2012.

Committee for Thesis discussion:

Member for the Discussion of the Following postgraduate (M.Sc. and Ph.D) students :

1. yzat Yousif Raoof Al-Nakshbandi(2002). Aphycolimnological study on Duhok impoundment and its main watershed Ph.D Thesis. Biology Dept., College of Science.Duhok University
2. Muhammed Sedi Salih Duhoki (1997).Evaluation of some wells and springs water in Duhok province, for irrigation and drainage purposes M.SC. Thesis of Biology Dept, College of Science, Salahaddin University.

3. Muhamad Salim Abdulah (1998). Study of chemical properties of water and determination of aliminum in drinking water and human blood. M .Sc.Thesis College of Medicine, University Salahaddin –Hawler.
4. Janan Jabbar Toma (2000). Limnological study of Dokan lake, Kurdistan Region, Iraq Univ. M.Sc. Thesis, Biology Dept, College of science, University of Salahaddin-Hawler.
5. Layala Muhammad Alaadin Al-Naqishbandi (2002). Limnological studies on the water treatment plant in Efraz, Erbil, M.Sc. Thesis. Biology Dept., College of Science, University of Salahaddin- Hawler.
6. Mariam Ibrahim Salih (2003). Effect of planting space on Vegetative and flower growth of three cultivars of *Chrysanthemum morifolium* in two Locations .M.Sc.Thesis. plant production Dept, of plant production College of Agriculture,University of Salahaddin- Hawler.
7. Parwin Hamid Majid (2003). Morpho-systematic study of the genus *Pupeleurum* L. (Umbelliferae) M.Sc. Thesis. Plant Production of Dept. College of Agriculture, University of Salahaddin –Hawler.
8. Mahammad.S.A.M.(2004). An ecological study on the aquatic life of Serchinar Spring. Chaq-Chaq and Kilaslan stream. Sulaimani, Iraq Kurdistan region M.Sc. Thesis. Sulaimani .
9. Mahammad Aziz Othman (2008). Phytoremediation of wast water using *Typha angustifolia* L. and *Plantago* sp. for irrigation purposes. M.Sc. Thesis. Biology Dept, College of Science. Univ. of Salahaddin-Hawler.
- 10.Tablo Abdula-Raheem Ahmad Jaf (2008). A study on (Ph, Ni, Cu) concentration and related factors in some uncooked vegetables irrigated by sewage water of Hawler –Kurdistan. M.Sc. Thesis, Biology Dept. College of Science, University of Salahaddin-Hawler.
- 11.Kawa A.A. (2009). Allelopathy between *Triticum aesitavum* and *Syrian cephalari* Ph.D, Thesis, Biology Departmen College of Science, Salahaddin University.
- 12.Younis, A. M. (2011). A limnological study on Gali-Ali Beg Water Resources. M.Sc. Thesis, Salahaddin Univ.-Erbil, College of Education Science Departments, Biology department.
- 13.Nashmeel. Study on the effect of some environmental factories on soil organisms in Erbil governorate. Ph.D Thesis, Slahaddin -Hawer University.Kurdistan region. Iraq. seminar waste managment (2)

Seminars:

- 1- Air Pollution /2014
- 2- Back Safety- 2014.
- 3- Growth and nutritional value of Kanger ppt presentation/2014
- 4- Introduction to environmental health.
- 5- Antalya- data base for water quality assessment in for Kurdistan /2013,
- 6- Hawler conference. (Dastay zenga),2013
- 7- Iraqi Environment 2014.
- 8- Ecological Foot Print/2013
- 9- Aspania / Dust deposition PPt/2013.
- 10- waste-type /2014
- 11- waste management/2014
- 12- Drought and drought conditions (cause and effect).in Kurdish./ 2014
- 13- The Ozone Layer/2014
- 14- Environmental Health/2014.
- 15- Ozone Depletion/ 2014.
- 16.- Heavy metals in water, fishes and sediment in Derdendekhan lake/ 2014.
- 17-Ecology and heavy metals content in aquatic plant,,,,,,,,,,,,,2014
- 18-Standardized model for water quality monitoring and comparison /2014.
- 19- Glaucospira in ponds in Gwer subdistrict/ 2014
- 20- Lichens 2013