**List of Publications**

**A.  Papers published in various refereed national and international journals**

1. **Al-Kahem, H. F. and Behnke, R. J. (1983). Freshwater fishes of Saudi Arabia. Fauna of Saudi Arabia. 5 : 545-565.**
2. **Coad, B. W., Al-Kahem, H. F. and Behnke, R. J. (1983). *Acanthobrama hadiyahensis*, a new species of cyprinid fish from Saudi Arabia. Publication in Canadian Natural Museum. Natural Sciences. 2 : 1-6.**
3. **Al-Akel, A. S., Shamsi, M. J. K. and Al-Kahem, H. F. (1987). Selective feeding behavior of the Arabian freshwater fish, *Aphanius dispar*. Pakistan  J. Zool. 19 : 211-215.**
4. **Al-Kahem, H. F. and Ahmad, Z. (1987). Studies on the oxygen consumption of *Oreochromis niloticus* and *Cyprinus carpio*. Zeitscrift fur Angewandte Zoologie. 74 (4) : 471-477.**
5. **Al-Kahem, H. F., Al-Akel, A. S., Shamsi, M. J. K. and Ahmad, Z. (1988).  Food selection of various size groups of the cyprinid fish, *Cyprinion mhalensis* Al-Kahem and Behnke, 1983 from Saudi Arabia. Arab Gulf J. Scient. Res. (Sci.) B6: 419-427.**
6. **Al-Akel, A. S., Shamsi, M. J. K., Al-Kahem, H. F., Chaudhary, M. A. and Ahmad, Z. (1988). Effect of cadmium on the cichlid fish, *Oreochromis niloticus*: Behavioural and physiological responces. J. Univ. Kuwait, 15 (3) : 341-346.**
7. **Chaudhary, M. A., Al-Kahem, H. F. Al-Akel, A. S., Ahmad, Z. and Shamsi, M. J. K. (1988). Thyroxine and blood chemistry of carp, *Cyprinus carpio*. German J. Appl. Zool. 75: 345-353.**
8. **Al-Kahem, H. F. (1989). Effect of sublethal copper concentrations on the behaviour of cichlid fish, *Oreochromis niloticus*. German J. Appl. Zool. 76 :  93-99.**
9. **Al-Kahem, H. F. (1989). Effect of different acids on the freshwater fish, *Aphanius dispar*. J. Biol. Sci. Res. 20 : 537-545.**
10. **Al-Kahem, H. F. (1989). Wildlife conservation in Saudi Arabia. Proceeding of the first symposium on wildlife conservation and development in Saudi Arabia held in Riyadh in February, 87. 3: 61-71.**
11. **Al-Kahem, H. F.; Al-Akel, A. S., Shamsi, J. J. K., Ahmad, Z. and Al-Shawa, Y. R. (1990). Food selectivity of an Arabian Peninsula’s cyprinid fish, *Cyprinion acinaces*. J. King Saud Univ. (Sci.) 2 (20) : 37-42.**
12. **Al-Kahem, H. F.; Al-Akel, A. S., Ahmad, Z., Shamsi, M. J. K. and Chaudhary, M. A. (1990).  Biochemical and behavioural responses of common carp, *Cyprinus carpio* to sulphuric acid. J. King Abdul Aziz Univ. (Sci.) 2 : 55-62.**
13. **Al-Kahem, H. F.; Behnke, R. J. and Ahmad, Z. (1990). Some osteological distinction among four Arabian cyprinid species. Japanese J. lchthyol. 36 (4) : 477-482.**
14. **Al-Kahem, H. F. (1991). Studies on the variations in meristic characters of *Aphanius dispar* collected from three different localities of Saudi Arabia. Pakistan J. Zool. 23 (1) : 95-96.**
15. **Al-Kahem, H. F.(1993). Ethological responses and changes in haemoglobin and glycogen content of the common carp, *Cyprinus carpio*, exposed to cadmium. Asian Fish. Sci. 6 : 81-90.**
16. **Al-Kahem, H. F.(1994). The toxicity of nickel and the effects of sublethal levels on haematological parameters and behaviour of the fish, *Oreochromis niloticus*. J. Univ. Kuwait. 21: 243-252.**
17. **Al-Kahem, H. F., Ahmed, Z. and Al-Omer, 1. (1994). A study on the behavioural response and haematological profile of carp, *Cyprinus carpio*, exposed to exogenous urea. German J. Appl. Zool. 80 (1) : 97-105.**
18. **Al-Kahem, H. F. (1995). Acute and sublethal exposure of catfish (*Clarias gariepinus*) to cadmium chloride : Survival, behavioral and physiological responses. Pakistan. J. Zool. 27 (1) : 33-37.**
19. **Al-Kahem, H. F. (1995).  Effects of nickel on carbohydrate metabolism of *Oreochromis niloticus*. Dirasat. 22 B (1) : 83- 88.**
20. **Al-Kahem, H. F. (1995). Effect of Arabian crude oil on the freshwater fish, *Oreochromis niloticus* : Bioassay, behavioral and biochemical responses. Arab Gulf  J. Scient. Res. 13 (1) : 173-186.**
21. **Al-Kahem, H. F. (1995). Behavioral responses and changes in some haematological parameters of cichlid fish, *Oreochromis niloticus*, exposed to trivalent chromium. J. King Abdul Aziz Univ. Sci. 7 : 5-13.**
22. **Al-Kahem, H. F. ; Ahmed, Z. and Arrasheed, M. A. (1995). Comparative study on the rates of respiration of a native Saudi Arabian fish, *Aphanius dispar* (Ruppell, 1828) and an introduced competitor, *Gambusia affinis* Baird and Girard, 1853) under laboratory conditions. J. King Saud Univ. Sci (2) 7 : 245-253.**
23. **Al-Akel, A. S., Al-kahem, H. F., Shamsi, M. J. K. and Ahmad, Z. (1996). Selection of food in various size groups of Nile Tilapia, *Oreochromis iloticus* (L.) in Wadi Haneefah Stream, Saudi Arabia. Pakistan. J. Zool. 28 (4) : 271-275.**
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26. **Al-Kahem, H. F., Al-Akel, A. S., Ahmad, Z. and Shamsi, M. J. K. (1997). Length-weight relationship, condition co-efficient (k) and relative condition co-efficient (Kn) of *Oreochromis niloticus*, from Wadi Haneefah Stream, Saudi Arabia. Geobios. 24 (1) : 3-9.**
27. **Al-Kahem, H. F., Al-Akel, A. S. and Ahmad, Z. (1998). Carbohydrate metabolism and ethological responses of cichlid fish, *Oreochromis niloticus* exposed to trichlorfon. Geobios. 25 (1) : 10-16.**
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29. **Al-Kahem, H. F. ; Al-Akel, A. S.; Shamsi, M. J. K. and Ahmed, Z. (1998). Planktonic  biomass and physio-chemical parameters in Wadi Haneefah Stream, Riyadh, Saudi Arabia. Dirasat. 25 (2) : 363-376.**
30. **Al-Kahem, H. F., Ahmed, Z., Al-Akel, A. S. and Shamsi, M. J. K. (1999). Toxicity bioassay and changes in haematological parameters of *Oreochromis niloticus* induced by trichlorfon. Arab Gulf J. Scient. Res. 16 (3) : 581-593.**
31. **Al-Kahem, H. F., Shamsi, M. J. K. and Ahmad, Z. (1999). Effect of water polluted with zinc sulphate on survial, behaviour, carbohydrate metabolism and blood parameters of cichlid fish, *Oreochromis niloticus* (Linnaeus, 1758).  Saudi J. boil. Sci. 6 (1) : 35-45.**
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36. **Al-Ghanim, Khalid  A., Al-Kahem Al-Balawi, Hmoud F., Al-Akel, Ali S., Al-Misned, Fahad, Ahmad, Zubair, and Annazri, A. (2008). Ethological response and haematological and biochemical profiles of carp (Cyprinus carpio) exposed to trichlorfon. J. Food Agricult.  Environ. 6 (3&4):473-479.**
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41. **Al-Akel, A. S., Alkahem-Al-Balawi, H. F., Al-Misned, F., Mahboob, S., Ahmad, Z. and Suliman, E. M. (2010). Effects of dietary copper exposure on accumulation, growth, and hematological parameters in *Cyprinus carpio.* Toxicol. Environ. Chem. 92:1865-1878. (ISI)**
42. **Mahboob, S., Sultana, G. S., Al-Akel, A. S., Al-Kahem Al-Balawi, H. F., Al-Misned, F. and Ahmad, Z. (M., Zubair) (2011). Pesticide residues in flesh of *Cirrhinus mrigala* collected from a commercial farm and river Chenab at Trimu Head, Jhang. Pakistan J. Zool. 43:97-101. (ISI)**
43. **Ahmad, Z., Alkahem, H. F. and Aldhahi, A. A. A. (2011). Fecundity, sex ratio and gonado-somatic index of epinephelus chlorostigma and Epinephelus areolatus sampled from Arabian Gulf. Animal J. Biol. 2(3):**
44. **Alkahem Al-Balawi, H.F., Ahmad, Z., Al-Akel A. S., Al-Misned, F., Suliman, E.M. and Al-Ghanim K.A. (2011). Toxicity bioassay of lead acetate and effects of sub-lethal exposure on growth, haematological parameters and reproduction in *Clarias gariepinus*. African J. Biotech. 10(53):11039-11047. (ISI).**
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46. **Mahboob, S., Farooq, M., Mahmood, S., Nasir,N., Sultana, S., Chaudhary, A. S., Al-Akel, A. S., Alkahem Al-Balawi, H. F., Al-Misned, F. and Al-Ghanim, K. A. (2012). Phylogenetic relationship of cultured and wild Labeo rohita and cirrhinus mrigala based on muscles proteins profile in different weight groups: A new tool in phylogenetic analysis. Int. J. Food Properties, 15: 949-960.**
47. **Alkahem Al-balawi, H. F., Al-Misned, F., Ahmad, Z., Al-Ghanim, K. A. and Mahboob, S. (2013). A study on the concentration of heavy metals in water and sediments of natural water reservoir in Wadi hanefah, Saudi Arabia and uptake of metals by a fish *Poec ilia latipinna*. Pak. J. Zool. 45:613-618. (ISI)**
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50. **Hakami, A. H., Alkahem Al-Balawi, H. F., Ahmad, Z., Mahboob, S., Elamin M. Suliman. and. Al-Ghanim, K. A. (2013). Studies on Feeding Ecology of fresh water fish (*Barbus arabicus*) Dwelling in "Beesh Dam", Jazan, Saudi Arabia. Life Sci. J., 10:39-45. (ISI)**
51. **Al-Deghayem, W., Al-Kahem Al-Balawi, H. F., Kandeal, S. and Suliman, E. M. (2013). The effect of different diets and temperatures on growth rate, nutrient utilization and body composition of *Clarias gariepinus (Burchell 1822).* Life Sci. J., 10(4):450-456. (ISI)**
52. **Mahboob, S., Alkahem Al-Balawi, H. F., Al-Misned, F. and Ahmad, Z. (2014). Investigation on the genotoxicity of mercuric chloride to freshwater *Clarias gariepinus*. Pak. Vet. J. 34(1): 100-103.**
53. **Ahmad, Z., Al-Ghanim K. A., Alkahem Al-Balawi, H. F., Al- Misned, F., Mahboob, S. and Suliman, E. M. (2014). Effect of exogenous ovarian steroids on growth and muscle composition of catfish, *Heteropneustes fossilis.* Afinidad 80 (568): 393-397. (ISI)**
54. **Mahboob, S. Alkahem Al-Balawi, H. F., Al-Misned, F., Al-Quraishy, S. and Ahmad, Z. (2014). Tissue metal distribution and risk assessment for important fish species from Saudi Arabia. Bull. Environ. Contam. Toxicol. 92: 61-66. (ISI)**
55. **Mahboob, S., Alkahem Al-Balawi, H. F., Al-Misned, F., Al-Ghanim, K. A. and Ahmad, Z. (2014). An evaluation of water pollution in the Wadi Hanefah, a natural reservoir in Saudi Arabia using oxidative stress indicators in *Poicilia latipinna*. J. Animal and Plant Sci. 24(2):475-480.**
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57. **Mustafa, G., Mahboob, S., Al-Ghanim, K. A., Sultana, S., Alkahem Al- Balawi, H. F. , Sultana, T., Al-Misned, F. and Ahmad, Z. (2014). Acute toxicity I: effect of profenofos and triazophos (organophosphates) and carbofuran and carbaryl (carbamates) to *Labeo rohita.* Toxicol. Environ. Chem. 96(3): 466-473.**
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63. **Mahboob, S., Haider, S., Sultana, S., Al- Ghanim, K. A., Al-Misned, F., Al-Kahem Al-Balawi, H. F. and Ahmad, Z. (2014). Isolation and characterisation of collagen from the waste material of two important freshwater fish species*.* J. Animal & Plant Sci. 24(6): 1802-1810.**
64. **Ahmad, Z., Alkahem Al-Balawi, H. F., Al-Misned, F., Maboob, S. and Suliman, E. M. (2015). Accumulation of heavy metals in the fish, *Oreochromis niloticus* and *Poecilia latipinna* (Leseuer, 1821) and their concentration in water and sediment of dam lake of Wadi Namar, Saudi Arabia. J. Environ. Biol. 36:296-299.**
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67. **Al-Ghanim, K. A., Ahmad, Z., Alkahem Al-Balawi, H. F., Al-Misned, F., Mahboob, S. and Suliman, E. M. (2015). The effects of a low- radiotoxicity uranium salt (uranyl acetate) on biochemical and haematological parameters in the catfish, *Clarias gariepinus.* Chinese J. Oceanol and Limnol.** [**http://dx.doi.org/10.1007/s00343-015-4392-3**](http://dx.doi.org/10.1007/s00343-015-4392-3)
68. **Mustafa, G., Mahboob, S., Al-Ghanim, K. A., Sultana, S., Alkahem Al- Balawi, H. F., Sultana, T., Al- Misned, F. and Ahmed, Z. (2015).** **Assessment of Meat Quality and Dressing Losses in Wild and Farmed *Cyprinus carpioa.* Pakistan J. Zool., 46:1753-1759.**
69. **Mustafa, G., Mahboob, S., Al-Ghanim, K. A., Sultana, S., Alkahem Al- Balawi, H. F., Sultana, T., Al- Misned, F. and Ahmed, Z. (2015).** **Assessment of Meat Quality and Dressing Losses in Wild and Farmed *Cyprinus carpioa.* Pakistan J. Zool., 46:1753-1759.**
70. **Mahboob, S., Al-Ghanim, K. A., Alkahem Al-Balawi, H. F., Al-Misned F., and Ahmed Z. (2016). Assessment of Accumulation of Trace Elements in Muscles, Gills, Liver and Intestine of Clarias gariepinus (Burchell, 1822) from Wadi Hanefah, Saudi Arabia. Pakistan J. Zool., vol. 48(3), pp. 875-880, 2016.**
71. **Al-Ghanim1 K.; Al-Thobaiti A., Alkahem Al-Balawi H. F., Ahmed Z.; Mahboob S. (2016). Effects of Replacement of Fishmeal with other Alternative Plant Sources in the Feed on Proximate Composition of Muscle, Liver and Ovary in Tilapia (Oreochromis nioloticus). Braz. Arch. Biol. Technol. v.59: e16150376, Jan/Dec 2016.Ghazala, Mahboob S., Al-**
72. **Ghanim K. A., Sultana S., Alkahem Al- Balawi H. F., Sultana T., Al-Misned F. Ahmed L. and Ahmed Z. (2016). Effect of Triazophos on Esterase Activity and Protein Contents of Liver, Kidney, Brain, Blood and Muscles of Catla catla, Labeo rohita and Cirrhinus mrigala. Pakistan J. Zool., vol. 48(2), pp. 513-518, 2016.**
73. **AL-GHANIM K. A., AHMAD Z., Al-Kahem AL-BALAWI H. F., AL-MISNED F., MABOOB, SULIMAN E. M. (2016). Effects of a low-radiotoxicity uranium salt (uranyl acetate) on biochemical and hematological parameters of the catfish, Clarias gariepinus. Chinese Journal of Oceanology and Limnology, Vol. 34 No. 1, P. 109-117, 2016.**
74. **Ahmad Z., Al-Ghanim K. A., Alkahem Al-Balawi H. F., Al-Misned F., and Mahboob S. (2016). STUDY ON ACUTE TOXICITY, HAEMATOLOGICAL AND BIOCHEMICAL ALTERATIONS INDUCED BY THE EXPOSURE OF DDT TO CATFISH. Fresenius Environmental Bulletin. Volume 25 – No. 12a/2016, pages 5935-5943.**
75. **Al-Deghayem W. A., Al-Balawi1 H. F., Kandeal S. A. and Suliman E. S. (2017). Gonadosomatic index and some hematological parameters in African catfish Clarias gariepinus (Burchell, 1822) as affected by feed type and temperature level. Braz. Arch. Biol. Technol. v.60: e160157, Jan/Dec 2017.**
76. **Al-Ghanim K., Al-Thobaiti A., Alkahem Al-Balawi H. F., Ahmed Z.; and Mahboob S. (2017). Effects of Replacement of Fishmeal with other Alternative Plant Sources in the Feed on Proximate Composition of Muscle, Liver and Ovary in Tilapia (Oreochromis nioloticus). Biological and Applied Sciences. Vol.60: e17160376, January-December 2017.**

 **B.   Book**

**1-       Field guide of animal ecology  (in Arabic with other collegue ,**

 **Dr. Awadh Al-Johny)**

**2-      Ichthyology (in Arabic)**