

## Academic Biography



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**Scopus ID:** 1447736600

**Research ID:** 8828-2015

**RG:**

[https://www.researchgate.net/profile/Fikrat\\_Hassan?ev=hdr\\_xprf&sg=FFhYSDqTZ1lyWfJweA-xr42eLg6kTtBcLFsVi36zCc8ZSUcUrHH65zDI0RCabEoS](https://www.researchgate.net/profile/Fikrat_Hassan?ev=hdr_xprf&sg=FFhYSDqTZ1lyWfJweA-xr42eLg6kTtBcLFsVi36zCc8ZSUcUrHH65zDI0RCabEoS)

**Research interests:**

- Biodiesel
- All Aquatic Ecosystems in Iraq
- Algal Ecology and Aquatic Plants
- Aquatic Pollution
- Water quality

**Appointments:**

- 2017- present: A member of College Council, College of Science for Women, Univ. Baghdad.
- 2015- present: Editor- in Chief of Baghdad Science Journal
- 2015- present Editorial member of Karabal International Journal of Modern Science.  
<https://www.journals.elsevier.com/karbala-international-journal-of-modern-science/editorial-board>
- 2012-2016: Head Department, Department of Biology, Univ. Of Baghdad.
- 2010- present Editorial member of Mesopotamia Environmental Journal
- 2005- present Consulting Committee of Iraqi Journal of Aquaculture.
- Books

No.	Scientific Literature Title	Year of The Publication
1	<a href="#">Biogeochemical Distribution Of Polycyclic Aromatic Hydrocarbons(PAHs) PAHs</a>	2014
2	<a href="#">Checklist of Algal Flora in Iraq</a>	2014
3	Marsh flora of southern Iraq before desiccation	2014
4	Practical Methods in Environmental and Pollution Laboratory	2017

- Journals

No.	Research Title	Place of Publication	Year
1	Spatial and seasonal variations of phytoplankton population and related	<b>Basrah J. of Sci. 12(1)</b>	1994
2	Effect of sewage system on Ground water quality in Babylon University Complex	<b>Rafiden Engineering J. 2(3)</b>	1994
3	On the seasonal variation of phytoplankton populations in Hilla river ,Iraq.	<b>J. Coll. Educ. For Women, Baghdad 6(2)</b>	1995
4	Effect of water soluble substances of Licorice(Glycyirhiza glabral.) on the growth of	<b>J.Babylon Univ.1(3)</b>	1996
5	Hydro-chemical evaluation of ground water in Babylon University complex	<b>Al-Mustansiriya J.Sci.6(1)</b>	1996
6	A Limnological study on Hilla River .	<b>Al-Mustansiriya J.Sci.8(1)</b>	1997
7	Effect of injection of Auxin and nutrient solution on growth and	<b>J. Babylon Univ. 3(3 )</b>	1998
8	Effect of aqueous extracts of Licorice (Glycyirhiza glabral.) and Cinnamome (	<b>J.Babylon Univ. 4( 3 )</b>	1999
9	Effect of vesicular arbuscular mycorrhiza on zea mays plants under four salinity levels	<b>J.Babylon Univ. 6( 3 )</b>	2000

10	On the ecological features of Razazzah lake.	<b>Iraq. National J.Chem. 4</b>	2001
11	Seasonal variations of the physico-chemical characters of Sawa lake, Iraq.	<b>Environmental Research and Sustainable Development 5(2)</b>	2002
12	Limnological features of Diwanyia river ,Iraq.	<b>J. of Um-Salama For Science,1(1)</b>	2004
13	Effect of different temperture and light intensity on growth of algae <i>Microcystis aeruginosa</i> .	<b>J. Babylon Univ.,9(3)</b>	2004
14	Effect of cadmium and lead on growth of blue-green algae <i>Microcystis aeruginosa</i> Kutz. In	Proceeding of 2 <sup>nd</sup> . <b>International Conference of Development and Environment in Arab Area. Edited by Assiut University, march 23-25</b>	2004
15	Effect of some medicinal plants extracts on the growth of the <a href="#">alga <i>Microcystis aeruginosa</i> (Kuetz.) Elenkin.Iraqi .</a>	Iraqi Journal of Science, 45(1): 92-98,	2004
16	Effect of Aggression and Blockade on the Ecological Living Components in Iraq.	Iraq. National J. Chem. 14	2004
17	Determination of some Heavy Metals in Released Industrial Wastewater of Al-Furat Company, IRAQ. and their Effects	Environmental Research and Sustainable Development, 8(1)	2005
18	Environmental effects of the released industrial wastewater from Al-Furat Company.	Environmental Research and Sustainable Development,5	2005

19	Evaluate the efficiency of wastewater treatment unit in Baghdad tanning factory- Baghdad-Iraq. 1-Physial and chemical characteristic	Environmental Research and Sustainable Development,9(1)	2006
20	Evaluate the efficiency of wastewater treatment unit in Baghdad tanning factory- Baghdad-Iraq. 2- Bacteriological characteristic.	Environmental Research and Sustainable Development,9(1)	2006
21	Quantity and Quality Study on the Phytoplankton Population for Three Irrigation Drainage Water in Saddat Al-Hindia	Iraq J. Aqua, 1:81-91.	2005
22	Toxic and accumulation effects of Cadmium and Lead on <i>Microcystis aeruginosa</i> in the growth medium.	J. of Um-Salama For Science,3(4)	2006
23	PHYTOPLANKTON AND RELATED NUTRIENTS IN SAWA LAKE	IRAQ. J. Dohuk Univ.11(1)	2008
24	Phytoplankton composition of Sawa lake.	Iraqi journal of Aquaculture 3(2).	2006
25	Concentrations of nine heavy metals in muscles of fish <i>Barbus luteus</i> Heckel ; <i>Aspius vorax</i> Heckel ; <i>Barbus grybus</i> Heckel and <i>Hypophthalmichthyes molotrix</i> Richardson collected from Euphrates river.	Environmental Research and Sustainable Development,10(1)	2007
26	Effects of nitrogen and phosphorus enrichment on the phytoplankton in Razazzah Lake, Iraq.	Environmental Research and Sustainable Development,10(1)	2007

27	Quantitative and qualitative variability of Epiphytic algae on three aquatic plants in Euphrates River,Iraq	Iraqi journal of Aquaculture 1	2007
28	Seasonal variations on the phytoplankton in Alwnd River – Iraq.	Iraqi journal of Aquaculture 3(2)	2007
29	Effect of Chemical and Physical Properties of River Water in Shatt Al-Hilla on Phytoplankton Communities.	E- Journal of chemistry Vol. 5, No.2,	2008
30	Laboratory study on the effects of nutrient enrichment on a phytoplankton population in Sawa Lake, Iraq.	J. of Um-Salama for Science, 5(2)	2008
31	Effect of the environmental pollutants on some of anatomic and morphological features of Dodonaea and Zizyphus.	Journal of Kerbala University 5(4) Scientific.	2007
32	The Study Of Some PAHs Compounds In Euphrates River Sediment From Al-Hindiya Barrageto Al- Kifil City – Iraq,	Journal of college of science-University of Babylon, 4(Supplement)	2009
33	<a href="#">The study of some physical and chemical characteristics in drinking water treatment plant of Jurf Al- Sakar subdestric in Babylon governorate, Iraq,</a>	J. of Um-Salama for Science, 4(3)	2007
34	The study of some PAHs compounds in Euphrates River from Al-Hindiya barrage to Al-Kifil city – Iraq.	1 <sup>st</sup> scientific conference, proceeding, part 2, a special issue of Kirkuk University Journal- scientific studies, 4(3)	2009
35	The study of some PAHs compounds in two species of clams in Euphrates River at Al-Hindiya city – Iraq	Amen S T (Eds) Proceedings of the First Scientific Conference for the College of Science Tikrit University, Tikrit	2009

36	Phytoplankton composition of Euphrates River: between Al-Hindiya Barrage and Kifil City, Iraq.	Journal of Environmental Biology, 31	2010
37	Study on physicochemical parameters and nine heavy metals in Euphrates river-Iraq.	E- Journal of chemistry 7(3)	2010
38	Vegetation Response to Re-flooding in the Mesopotamian Wetlands, Southern Iraq.	Wetlands,30(2)	2010
39	The Geoaccumulation Index of some Heavy Metals in Al-Hawizeh Marsh	<b>E- Journal of chemistry, 7(5)</b>	2010
40	<b>Phytoplankton primary production in southern Iraqi marshes after restoration</b>	<b>Baghdad Science Journal, Volume 8 (1)</b>	2011
41	A limnological study in Euphrates River from Al- Hindiya Barrage To Al-Kifil city – Iraq	Basrah Journal of Scienc Vol. 28(2):314-329, 2010	2010
42	Ceratophyllum demersum L. and Typha domingensis Pers as bioindicator of some PAHs compounds In Euphrates river at AL-Hindiya city	Basrah Journal of Scienc Vol. 28(2):288-298	2010
43	Study of Some physical, chemical and bacteriological tests of Al-Khatoneyia river water in Al-mahaweel Q. in Babylon governorate /Iraq	Journal of college of science-University of Babylon	
44	Environmental Study to Used The Aquatic Organisms as Bioindicators to Euphrates River Pollution by Heavy Metals.	Iraqi Journal of Market Research and Consumer Protection 2(3): 144-167	2010

45	An assessment evaluation of an industrial textile wastewater in Hilla city-Iraq.	Journal of college of science-University of Babylon, <b>19(5):1827-1837</b>	2011
46	Systematic study of epiphytic algal after restoration of Al-Hawizah marshes, southern of Iraq	International Journal of Aquatic Science, <b>3(1): 37-57</b>	2012
47	A CONTRIBUTION TO ALGAL FLORA IN BAGHDAD AREA, IRAQ	J. Adv. Lab. Res. Bio. 3(2): 91-100	2012
48	The effect of temperature and light intensity on growth of <i>Microcystis aeruginosa</i> and its ability to produce Microcystin- LR toxin.	International Journal of the Environment and water, 1(5 ):1-17	2012
49	Test ability of three microalgae in treatments of textile wastewater factory in Hilla city, Iraq	International Journal of the Environment and water, 1(3 ): 174-184.	2012
50	IMPACT OF INDUSTRIAL WASTE WATER ON THE PROPERTIES OF ONE MAJOR DRAINAGE IN THE REGION OF THE MIDDLE EUPHRATES / IRAQ. Int.	J. Chem. Sci.: 10(4): 1785-1798.	2012
51	Water Quality and phytoplankton Composition in Hilla River, Iraq.)	Proceeding of 4th Conference of Environmental Science, University of Babylon, Babylon, 5-6 December 2012, pp. 144-160	2012

52	Environmental Impacts for Industrial Waste Water on the Phytoplankton	Proceeding of 4th Conference of Environmental Science, University of Babylon, Babylon, 5-6 December 2012, pp. 144-160	2012
53	The Distribution of <i>Ceratophyllum demersum</i> L. in Relation to Environmental Factors in Restored Al-Mashb marsh, Hor Al-Hammar, Southern Iraq.	Marsh Bulletin 7(2): 137-149.	2012
54	The spatial and temporal distribution of Epipelagic algae and related environmental factors in Neel stream, Babil province, Iraq	International Journal of Aquatic Science, 4(2): 23-32	2013
55	An attempt to stimulate lipids for biodiesel production from locally isolated microalgae in Iraq	J. Baghdad for Sci., <b>10(1): 97-108.</b>	2013
56	<b>Stimulation of biodiesel production from two algae: <i>Chlorella vulgaris</i> Berjerinck and <i>Nitzschia palea</i> (Kütz.) Smith, and study their some growth parameters under different light intensity.</b>	<i>IOSR Journal Of Environmental Science, Toxicology And Food Technology</i> , 6(2): 31-42	2013
57	Study of Bacterial Indicators in Water and Sediments from Al- Hilla River, Iraq	Hydrol Current Res 2013, S13:001	2013
58	A Study of Phytoplankton Communities and Related Environmental Factors in Euphrates River (between two cities: Al-Musayyab and Hindiya), Iraq.	<b>Journal of Environmental Protection</b>	2013
59	An Ecological Study of Epiphytic Algae on Two Aquatic  Macrophytes in Lotic Ecosystem	Asian Journal of Natural & Applied Sciences, 3(3):37-52.	2014
60	Qualitative and Quantitative study of Epipelagic algae in Tigris river within Baghdad city, Iraq	Journal of Baghdad for Science 11(3): 1074-1082.	2014



61	Quality, Quantity and origin of PAHs (Polycyclic Aromatic Hydrocarbons) in Lotic Ecosystem of Al- Hilla River, Iraq.	Journal of Civil Engineering and Architecture, 8(8): 1026-1038	2014
62	The study of Pollution of PAHs Polycyclic Aromatic Hydrocarbons) in Al- Hilla River, Iraq by using Bioindicator Freshwater crab (Sesarma boulengeri Calman)	Journal of Life Sciences, 8(4): 351-357.	2014
63	Ecological Observation on Phytoplankton Species Composition in Wastewater Treatment Plant/ Iraq.	International Journal of Advance Research, 2(8): 344-356.	2014
64	An environmental study for Bani-Hissin stream in Holy Karbala governorate	Journal of Baghdad for Science11(3): 1319-1327	2014
65	An Ecological Observation on Inland water Ecosystem in Erbil –Iraq Kurdistan with particular reference to blue green algae GlaucoSPIra	Journal of Baghdad for Science11(3): 1387-1398	2014
66	An Environmental Study on Phytoplankton (Diatoms) in Al-Yusifiya River, Iraq	Journal of Baghdad for Science11(3): 1301-1309	2014
67	An Environmental Study of Epiphytic Algae on Ceratophyllum demersum in Tigris River within Baghdad City, Iraq	Journal of Baghdad for Science11(3): 1342-1353	2014
68	<b>Seasonal Variation of Environmental Properties and Phytoplankton Community in Al-Hussainya River, Holly</b>	Mesopotamia Environment Journal (MEJ), 1(1): 59-82	2014

69	Qualitative and Quantitative Study of Phytoplankton (Diatoms) in a Lotic Ecosystem, Iraq	International Journal of Aquatic Science	2015
70	A Study of Phytoplankton Communities and Related Environmental Factors in Euphrates River (between two cities: Al-Musayyab and Hindiya), Iraq	Journal of Environmental Protection (JEP ) (Accepted for publication)	2015
71	A Contribution to the Epipellic Algal Ecology in Lotic Ecosystem of Iraq	Journal of Environmental Protection, 2015, 6, 85-95	2015
72	A Study of the Fate of Some heavy metals in water and Sediments in lotic Ecosystems	International Journal of chemical and Physical sciences	2015
73	Effect of light intensity on biofuel production from green alga <i>Chlorella vulgaris</i>	International Journal for Sciences and Technology / ICV: 4.32 - SJIF: 3.735 Vol. 10, No.4,	2015
74	Descriptive Study of Some Epiphytic Algae (Non diatoms) After Restoration of Mesopotamian Marshes, Southern of Iraq	Mesop. environ. j. 2015, Vol.1, No.2:96-108	2015
75	Assessment of a lotic ecosystem by using diatomic indices(Epipelic Algae), Iraq	Mesop. environ. j. 2016, Vol.2, No.2:87-100.	2016
76	Polycyclic Aromatic Hydrocarbon (PAHs) Concentrations in Some Aquatic Macrophytes in Hilla River, Iraq	Journal of Environmental Protection, 2016, 7, 198-211	2016
77	Evaluation Industrial and Domestic Wastewater Treatment Plant of DIALA's state company of Electrical industries, Iraq.	Mesop. environ. J. 2016,2 (4): 14-22	2016

78	Bioadsorption of Heavy Metals From Industrial Wastewater Using Some Species of Bacteria	Baghdad Science Journal, 2016: Vol.13(3): 435-448	2016
79	Evaluation industrial and domestic wastewater treatment plant of Diala's state company of electrical industries, Iraq	Mesopotamia Environmental Journal:Vol.2, No.4 :14-22.	2016
80	A quantitative study of Attached Algae on Two substrates (Natural and Artificial) in A Lotic Ecosystem	Mesop. Environ. J. 2017: Vol.3, No.2:1-10	2017
81	Qualitative and Quantitative Study of Epiphytic Diatoms on Two Macrophytes In A lotic Ecosystem, Iraq	<i>Indian Journal of Ecology (2017) 44(3): 504-515</i>	2017
82	Community Structure of Benthic Algae in a Lotic Ecosystem, Karbala Province-Iraq	Baghdad Science Journal: vvol.14 (4): 692- 706	2017
83	Water Quality assessment by Diatoms in Tigris River / Iraq	<b>International Journal of Environment &amp; Water: Vol 6, Issue 2,; 53-64</b>	2017
84	<b>Detection of Detergents (Surfactants) in Tigris River- Baghdad/Iraq</b>	<b>International Journal of Environment &amp; Water: Vol 6, Issue 2,:1-15</b>	2017
85	Qualitative and Quantitative study of Epipelion algal community in Euphrates River (Al-Hussainya), Karbala	International Journal of Aquatic Science: vol. 9 (1)	2018

No.	Conferences Title	Year	Place	Type of
1	the 2nd National conference of biological Science.		Al-Mustansiriya Univ.	Committee

2	1st,2nd , 3rd and 4th Scientific Symposium on Environment pollution in Babil goveranote.		Babylon Univ.	Committee
3	the 2nd National Conference of biological Science		Kurbala Univ.	
4	consulation workshop on Mesopotamian Marshlands management	2004	Amman- Jordan	Participate
5	the INTECL/ESA meeting	2005	Material- Canada	Participated by research
6	International Environmental Health Conferencen	2005	Amman- Jordan	Participated by research
7	Kurdistan 1 <sup>st</sup> . Conference of Biological Science	2006	Dohuk Univ.	Participated by research
8	Environmental conference	2008	Basrah Univ.	Participated by research
9	The 1st,2nd , 3rd and 4th Scientific Symposium on Environment Pollution in Babil goveranote.	2000-2002	Babylon Univ.	Participated by research and conference committee
10	THE FIFTH INTERNATIONAL CONFERENCE ON BIOLOGICAL SCIENCES Organized by BOTANY AND ZOOLOGY DEPARTMENTS Faculty of Science, Tanta University,Tanta, Egypt. SESSION (2), PHYCOLOGY,	2008	Tanta University,Tanta, Egypt.	Participated by research
11	The 6th Scientific Conference of Fisheries Resources, 3-4 March 2009, Basrah, Iraq/Session (9): Water Quality and	2008	Basrah Univ.	Participated by research
12	the 4 <sup>th</sup> Scientific Conference of CSASC	2009	Babylon Univ.	Participated by research
13	National environmental challenge	2010	Babghdad Univ.	Participated by research
14	the environmental threats to iraq's surface waters, Department of Biology, College of Science for Women,	2010	Baghdad Univ.	Participated by research and conference committee
15	the environmental threats to iraq's surface waters, Department of Biology, College of Science for Women, University of Baghdad	2010	Baghdad Univ.	Participated by research and committee
16	The 3 rd. Scientific conference on Environmental pollution	2010	Babylon Univ.	Scientific committee
17	Seminar concept of sperm between the two concepts of scientific and legitimate	2011	Baghdad Univ.	Head of Scientific committee
18	Forum on natural airborne dust held in Kermanshah	2012	Kermanshah-Iran	Discuss committee

19	Iraqi lakes as investment environment	2012	University of Baghdad	Member committee
20	Symposium on Alien species risk in environment	2011	University of Baghdad	Member committee
21	5 <sup>th</sup> . International Conference of Environmental Science University of Babylon/ Environmental Research Center,	2013	University of Babylon	Participated by research and conference committee
22	The International Conference on Biodiversity in the basin of Rivers Tigris and Euphrates	2013	University of Baghdad	Participated by research and conference committee

**Thesis which was supervised by :**

No.	Thesis Title	Department	Year
1	The toxic effect of Cadmium.,and Lead on growth of alga Microcystis aeruginosa Kuetz	Babylon Univ.	2001
2	Effect of aqueous extracts of some medicinal plants on growth of Microcystis aeruginosa	Al-Qadisiyia Univ.	2001
3	An ecophysiological study on Phytoplankton in Sawa lake, Iraq	Al-Qadisiyia Univ.	2001
4	Studying of ecological pollution Pollutants effect on some of plants From the anatomic	Kufa Univ.	2002
5	Ecophysiological study for Microcystis	Babylon Univ.	2002
6	The probable environmental influences for industrial water drainage for one of industrial company	Babylon Univ.	2003
7	Aerobic bacterial deterioration Of oil emulsion 7201 and it's control By some biocides	Babylon Univ.	2003
8	The ecological effects of industrial wastewater released from the general euphrates company near Al-Hindia dam Iraq	Babylon Univ.	2004
9	Ecological study for the characteristic of Untreated sewage and wastewater from	Babylon Univ.	2004
10	Effect of Aqueous extracts of Eucalyptus leaves and Maize silks for controlling the growth of	Baghdad Univ.	2004
11	Study Some Physical Chemical and Bacteriological Pollution With it in Water	Babylon Univ.	2004

12	Study of algal diversity and their correlation with some physical and chemical characterizes <del>San-Hilla river</del>	Babylon Univ.	2004
13	Ecological study for Euphrates River between Al-Hindia reservoir and Al-Kefel town/Iraq.	Babylon Univ.	2005
14	Environmental study of possible pollution on Euphrates River between Al-Hindia dam and Al-	Babylon Univ.	2006
15	Qualitative and quantitative studies of some polycyclic Aromatic hydrocarbons and	Babylon Univ.	2007
16	Ecological Study of Aquatic Macrophytes in the Central Part of The Marshes of Southern Iraq.	Baghdad Univ.	2007
17	A study of ecology and diversity of epiphytic algae on some aquatic plants in Al- Hawizah marshes, Southern Iraq	Baghdad Univ.	2010
18	Biogeochemical Accumulation of polycyclic Aromatic Hydrocarbons (PAHs) in Al-Hiolla River-Iraq	Babylon Univ.	2012
19	An Ecological Study of Epiphytic Algae on Aquatic Macrophytes in Tigris River within Baghdad city, Iraq	Diyala Univ.	2013
20	An Ecological study of epipelagic algae in Bini Hissin stream/ Karabla city, Iraq	Karabla Univ.	2014
21	An Ecological study of Phytoplankton in Bini Hasan Stream/ The Holy Karabla province, Iraq	Karabla Univ.	2014
22	An Ecological study of Phytoplankton Epipelagic Algae in Tigris river within Baghdad, Iraq	Baghdad Univ.	2014
23	An Ecological study of Phytoplankton Epiphytic Algae in Tigris river within Baghdad city	Baghdad Univ.	2014
24	Stimulation of Biodiesel production by locally isolated Algae	Baghdad Univ.	2014
25	An Environmental Study on Phytoplankton in Al- Yusifiya River, Baghdad- Iraq	Baghdad Univ.	2014
26	A study of Algal community ecology and some environmental pollution in Al-hussiyah river.	Karabla Univ.	2015
27	Water quality assessment of Al-Shamyia river by using diatoms.	Al-Qadisiya Univ.	2016
28	Evaluation of treatment plant of Diala company of electric industries and using bacteria for adsorption Copper and cadmium.	Univ. Baghdad	2016

29	A study Algal community ecology in Tigris riverL Kut.	Tikrit Univ.	in progress
30	Epipellic algal ecology in Al Diwaniya river.	Univ. Baghdad	in progress

- patents
- Non
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**Memberships:**

- **Member of INTCOL**
- **Member of Society of Biology**
- **Member of Society of environmental protection**
- **NRDC (Natural Resources Defense Council )**