

Description of Main Duties and Responsibilities from 1994 -2024):

I am performing the below duets during 1994-2023:



Academic Curriculum Vitae

Personal Information:

Full Name: Akram Othman Esmail

Academic Title: Professor

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Education:

- B.Sc. Soil Science, College of Agriculture/Univ. of Sulaimani/1980.
- Grads: M.Sc., Soil Science/Univ. of Salahaddin, Erbil, Iraq/1986.
- The title of M.Sc. Thesis: Limiting the suitability of some groundwater in Erbil plain for different purposes.
- PhD: Soil Chemistry /Univ. of Baghdad/1993.
- The title of Ph.D. Dissertation: Effect of ion pairs and activity in irrigation water on soil and plant.

Employment:

"I have had the privilege of instructing undergraduate, MSc, and PhD students at multiple distinguished universities including Salahaddin, Sulaimani, Raparin, Soran, and Duhok.

Teaching experience:

Subjects	College	Undergraduate students	Postgraduate students
Irrigation and drainage	Agriculture		
Soil chemistry	Agriculture	x	x
Soil mineralogy	Agriculture	x	x
Soil reclamation	Agriculture	x	x
Soil Science	Agriculture	x	
Biostatistics	Agriculture, Science, Medical Science, Administration and Economic, Koya		x
Experimental design and analysis	Agriculture, Education and Administration and Economic	x	x
Water quality	Agriculture	x	x
Water quality	Science		X

Research and publications

Authors	Title	Publication	Vol.	No.	P.	Year
Esmail, Akram Othman; Khdir, Shwana Abdlla;	Determining the Main Physicochemical Properties of Betwain (Rania) Plain Soils					
Esmail, Akram Othman;	Limiting Irrigation Water Quality Indices of Some Groundwater in Erbil Plain. Akram Othman Esmail Kazin Sarbaz Rajab					
Esmail, Akram Othman;	Effect of Soil Phosphorus Chemical Equilibrium on P-availability for Wheat using Solubility Diagram and (DRIS-Chart) Methods	Journal of Kirkuk University for Agricultural Sciences Vol	3	2		2012
Esmail, AO;	Effect of ion composition and ion pair in irrigation water on soil and plant					1992
Rajab, Kazhin Sarbaz; Esmail, Akram Othman;	EFFECT OF IRRIGATION WATER QUALITY INDICES OF GROUNDWATER ON SOME SOIL CHEMICAL PROPERTIES, GROWTH 'YIELD AND NUTRIENT CONTENT OF WHEAT IN ERBIL PLAIN.	The 2nd Scientific Agricultural Conference			691	2016
Yaseen, Haifa; Esmail, Akram;	Effect of Q/ Parameter on Limiting Soil Potassium Critical Levels of Some Soil Order at Kurdistan Region-Iraq	한국토양비료학회 학술발표회 초록집			370-370	2014
Esmail, Akram Othman; Atrushy, Shawkat Mustafa Mohammed; Mustafa, Shayan Akram;	Effect of concentrations and number of spraying with Mg on growth yield and quality of grape (Vitis vinifera L.) cv. Tre-Rash.	Journal of Kirkuk University for Agricultural Sciences	8	1	18-Dec	2017
Maulood, Pakhshan M; Esmail, Akram O; Dohuki, Mohammed SS; Darwesh, Dalshad A;	Comparison between calcimetric and titrimetric methods for calcium carbonate determination	Open Journal of Soil Science	2	3	263	2012
AKRAWI, HAIFA S; AL, MOHAMMAD A; ESMAIL, AKRAM O;	EFFECT OF WATER QUALITY ON K-RELEASE OF SOME CALCAREOUS SOIL IN ERBIL GOVERNORATE-KURDISTAN REGION-IRAQ	The 2nd Scientific Agricultural Conference			676	
Esmail, Akram Othman; Miran, Kawa Khalil;	Effect of Levels of Phosphorus, Methods of Application and Their Combinations on Growth, Yield, and Quality of Broad Bean in Calcareous Soil	Univ. of Salahaddin, College of Agric			9-Jan	2012
Esmail, AO;	Limitation of some ground water suitability in Erbil plain for different uses					1986
Esmail, Akram Othman;	Effect of Iron chelate consumed and non-consumed tea on corn plant Akram Othman Esmail Khadjah M. Ali Rasul arez96y@ yahoo. com	Journal of Kirkuk University for Agricultural sciences Vol	4	2		2013
Ahmad, Ali Bawasheakh; Esmail, Akram O;	Some heavy Metal pollution investigation in Sulaimani province groundwater	J. of Zankoi Sulaimani Part (A) Pure and Applied Science	17	4	37-60	2015
Ahmed, Ismaeel T; Esmail, Akram O;	Relationship between Soil Physico-chemical Properties and the Spectral Reflectance's of Some Soil Sites from Arbil Governorate					2013
Esmail, Akram Othman; Yasin, Haifa Sediq; Mahmood, Bahar Jalal;	Effect of levels of phosphorus and iron on growth, yield and quality of flax	Journal of Agriculture and Veterinary Science	7	5	11-Jul	2014
Esmail, Akram O; Salih, Hemn O;	The role of ion pairs and ion activity in classification of ground waters for irrigation in Erbil plain	Journal of Zankoy Sulaimani-Part A, Special	16		177	2014
Esmail, Akram Othman; Kareem, Aveen Sabir;	Effect of Water Quality on Chemical Properties of Two Different Soil Textures and Corn Growth in Erbil Governorate	Journal of Kirkuk University for Agriculture Sciences Vol	3	2		2012
Kareem, Aveen Sabir; Esmail, Akram Othman;	IMPACT OF ION PAIRS AND ACTIVITY ON ASSIFICATION OF GROUNDWATERS FOR IRRIGATION PURPOSE IN ARBIL PLAIN	The 2nd Scientific Agricultural Conference			624	
Khdir, Shwana Abdlla; Esmail, Akram Othman;	Limiting potassium critical level for Betwain plain soils and wheat plant.					
Esmail, Akram O; Sharef, Sazan F; Mohammed, Aram A; Rasul, Ghafoor A Mam; Esmail, Akram O;	Determination of iron critical level for main agricultural soils cultivated with wheat (Triticum aestivum L.) in Sulaimani.	Journal of Garmian University	4	ICBS Conference	375-394	2017
Akrawi, Haifa S Yaseen; Akram O, Esmail;	Response of Local rice cultivar to Zinc and Boron application	Baghdad Science Journal	8	2	289-294	2011
Akrawi, Haifa S Yaseen; Akram O, Esmail;	DETERMINATION OF POTASSIUM DESORPTION INDEX OF SOME SOIL ORDERS IN KURDISTAN REGION-IRAQ	Mesopotamia Journal of Agriculture	42	1	314-327	2014
Ahmad, Ismaeel T; Esmail, Akram O;	EFFECT OF DIFFERENT LEVELS OF PHOSPHORUS FERTILIZER ON11 HEAVY METALS CONCENTRATION IN DIFFERENT PARTS OF WHEAT PLANT	Mesopotamia Journal of Agriculture	42	1	328-334	2014
Esmail, Akram Othman; Rasul, Khadjah M Ali;	Effect of Iron chelate consumed and non-consumed tea on corn plant	Kirkuk University Journal For Agricultural Sciences (KUJAS)	4	2		2013
Esmail, Akram Othman; Khazin, SR;	Effect of chemical composition of irrigation water on some growth and yield of corn and P-availability in calcareous soil	In 2nd conference of Zankoi Sulaimani May			20-1	2018
Esmail, AO;	Effect of composition and ion pair in irrigation water on soil and plant					1992

Esmail, Akram Othman; Akrawi, Haifa Sadik Yaseen; Mahmood, Bahar Jalal;	Effect of Levels of Phosphorus and Iron on Growth, Yield and Quality of Flax (<i>Linum usitatissimum</i> L.)	Kirkuk University Journal For Agricultural Sciences (KUJAS)	9	3		2018
Esmail, AO; Kawa, Kh M; Yadgar, MF;	Effect of Mg/Ca ratio in irrigation water on the yield and quality of chickpea	Iraqi J. Agri. Sci. Zanco	11		8-Jan	1999
Esmail, Akram O. Qadir, Bahast A; Hamad, Hawnaz Q;	Effect of drinking water hardness on kidney stones formation in Ranya District	Cihan University-Erbil Scientific Journal	4	1	6-Jan	2020
Akram O.E. and Bahar J. M. Abdulamin, M.R.A.;	Effect of irrigation water quality on ions behaviorism in soil profile	Iraqi J. of Agric. Sci.	18	2	155-172	1987
FATTAH, Kamaran Mustafa; ŞENSOY, Suat; ESMAIL, Akram Othman;	The Effects of Plant density and Organic Fertilizer on Growth and Yield of Sweet Corn (<i>Zea mays</i> L. var. <i>saccharata</i> Sturt)	YUZUNCU YIL UNIVERSITY JOURNAL OF THE INSTITUTE OF NATURAL AND APPLIED SCIENCES	24	1	43-55	2019
Esmail, Akram Othman; Rajab, Kazhin Sarbaz;	DOI Link: https://doi.org/10.17656/jzs.10716					
Esmail, AO;	Role of ionic activity in relation between ionic strength and electrical conductivity of ground water in Arbil plain	Journal of Dohuk University	4	2	73-77	2001
Esmail, Akram Othman; Sheikh-Abdullah, Shuela Mohammed; Maruf, Muhamad Tahsen;	Phosphorus availability in entisols, inceptisols, and mollisols of Iraqi Kurdistan	Soil Science	184	3	95	2019
Abdullah, AS; Esmail, AO; Ali, OO;	Mineralogical properties of oak forest soils in Iraqi Kurdistan region.	Iraqi Journal of Agricultural Sciences	50	6		2019
Abdullah, AS; Esmail, AO; Ali, OO;	COMPARISON BETWEEN CHEMICAL AND MINERALOGICAL PROPERTIES OF OAK FOREST AND BARE CULTIVATED SOILS IN.	Iraqi journal of agricultural sciences	51			2020
Khoshnaw, MR; Esmail, AO;	Comparison between organic matter content of main soil orders in Kurdistan region using two different methods	Iraqi journal of agricultural sciences	51		8-Jan	2020
Khoshnaw, Muslim Rasul Arab; Esmail, Akram Othman;	Using Double Function Solubility Diagram to Study the Effect of Phosphorus Fertilizer on the Availability of Phosphorus in Different Soil Orders.	Zanco Journal of Pure and Applied Sciences	32	1	127-136	2020
Rajab, KS; Esmail, AO;	Effect of ion pairs on decrease the risk of using saline water for irrigation.	Iraqi Journal of Agricultural Sciences	51	2		2020
SALEM, BARHAM M; ESMAIL, AKRAM O; RASHID, ALWAND T;	Limiting water resources for agricultural uses in Rania district, Sulaimani governorate	Journal of Duhok University	22	s2	27-37	2019
Dohuki, Mohammed-Sedqi SM; Al-Obaidi, Mohammed AJ; Esmail, Akram O;	Effect of water quality on growth and yield of (<i>Zea mays</i> L.) in calcareous soil from Erbil provenance in Kurdistan region-Iraq	Kirkuk University Journal For Agricultural Sciences (KUJAS)	4	2		2013
Sajadi, Dania Mohammed Danish Aladdin; Esmail, Akram Othman;	Comparison Between Groundwater Quality at North East and South West of Erbil Governorate for Irrigation Using Some Global Systems and Principal Component Analysis	Al-Qadisiyah Journal For Agricultural Sciences (QJAS) ISSN : 2618-1479	10	2	308-324	2020
Sajadi, Dania MDA; Esmail, Akram O;	Identify of Groundwater Quality in Erbil Province for Agricultural and Drinking uses Depending on Salinity and some Heavy Metals Concentration	Iraqi Journal for Soil Science	20	1	253-265	2020
Rajab, KS; Esmail, AO;	Classification of some spring waters in Erbil governorate using different methods	IOP conference series: earth and environmental science	761	1	12014	2021
Khoshnaw, Muslim R; Esmail, Akram O;	INTERACTION OF SOIL ORDERS AND LEVELS OF APPLIED PHOSPHORUS ON P-STATUS OF SOIL CALTIVATED WITH WHEAT AT ELONGATION STAGE.	Plant Archives (09725210)	21	1		2021
Krusk, Azad; Esmail, Akram; Ali, Othman;	Comparison between Mineralogical Properties of Oak Forest and Un-Cultivated Soils in Iraqi Kurdistan Region	Journal of Applied Science and Technology Trends	2	1	52-57	2021
Esmail, Akram O; Rasul, Ghafoor A Mam; Mohammed, Aram A;	Response of Local rice cultivar to Zinc and Boron application	Baghdad Science Journal	8	2		2011
Rajab, Kazhin Sarbaz; Esmail, Akram Othman;	Influence of Ion Pairs and Activity on the Index of Irrigation Water Quality Relying on Some Modern Terms in Erbil Governorate.	Zanco Journal of Pure and Applied Sciences	34	2	118-128	2022
Esmail, Akram O; Ali, Othman O; Abdulrahman, Nashat M;	Effect of forest exposure on nutrient balance in oak (<i>Qurecus aegilops</i>)	Journal of Kirkuk University-Scientific Studies	6	1		2011
Esmail, Akram Othman; Barwari, Vahil Ismael; Rehani, Omar Anwar;	Limiting Irrigation Water Quality Indices of several rivers, wells and springs in Dohuk governorate	Zanco Journal of Pure and Applied Sciences	34	4	33-44	2022
abdulkadir Rashid, Bakhtyar; Esmail, Akram Othman;	Influence of some Bio chars and organic fertilizers on some biological parameters of sweet corn (<i>Zea mays</i> L.) at Sulaimani Governorate, IKR.	Zanco Journal of Pure and Applied Sciences	34	6	56-68	2022
MARIF, AA; ESMAIL, AO;	QUALITY EVALUATION OF WATER RESOURCES FOR IRRIGATION IN SULAIMANI GOVERNORATE, IRAQ.	Applied Ecology & Environmental Research	21	3		2023
Rajab, KS; Esmail, AO;	Role of ion pairs and activity in estimation of ionic strength from electrical conductivity of irrigation water	Iraqi Journal of Agricultural Sciences	54	3	755-767	2023

Conferences and courses attended

Contributing in more than 20 international and local conferences

Funding and academic awards

"I am honored to have received numerous awards from the Minister of Higher Education, the Minister of Agricultural and Water Resources, as well as recognition from the majority of universities in the Kurdistan region."

Professional memberships

- Kurdistan. Ag. Engineers union.
- Kurdistan teachers' union.
- Dibis organization for environmental protection

Professional Social Network Accounts:

Research gate: <https://www.researchgate.net/profile/Professor-Dr-Akram-Esmail>

Google scholar: <https://scholar.google.com/citations?user=mJavG38AAAAJ&hl=en>

Cover letter

I am currently a Professor at Salahaddin University-Erbil, affiliated with the College of Agricultural Engineering Sciences in the Department of Soil and Water. Throughout my academic career, I have been privileged to educate BSc and MSc students at Salahaddin University, and PhD students at both Salahaddin and Duhok Universities. Presently, I am instructing BSc students at Rapareen University, and guiding MSc and PhD candidates at Duhok, Soran, and Sulaimani Universities, alongside my commitments at Salahaddin University.

My academic journey includes supervising 30 MSc students and 15 PhD candidates, as well as serving as a member or Chairman of the examination committees for over 400 students. I have authored 70 research papers and written two scholarly books; one focusing on Experimental Design and Analysis, and the other delving into Soil Chemistry.