

Awadis Arslan, Ph. D.

Soil Scientist

Natural Resources and Environmental Science
University of Nevada, Reno
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PROFESSIONAL EXPERIENCE

- 2017- present Research Scientist, Department of Natural Resources and Environmental Science, University of Nevada, Reno, USA / USDA-ARS. Conducting research on soil conservation, forage production, and water harvesting processes. Synthesizing literature and developing progress reports on solute movement in soil-plant-water continuum. Modeling water quality of soil containing gypsum. Teaching Soil 322, NERS UNR fall 2017.
- 2015- 2017 Natural resources expert at the Higher Commission for Scientific Research. Member of the scientific consulting committee of the Higher Commission for scientific research. Planning and executing research projects for improving and development crop production and rangelands management and soil erosion and hydrologic processes. Synthesizing literature and developing progress reports on solute movement in soil-plant-water continuum. Large data collection and processing and develop peer reviewed articles.
- 2014- 2015 Soil Physics and Salinity expert at ACSAD. Training and Planning and executing research projects for improving and development crop production and rangelands management and soil erosion and hydrologic processes. Synthesizing literature and developing progress reports on solute movement in soil-plant-water continuum. Studies on soil spatial variability, irrigation, water balance, plant nutrition and soil fertility, determination of leaching fraction and management of saline soils. Modeling plant growth and hydraulic properties of soil surface. Soil and water salinity management
- 2013- 2014 Director General of the General Commission of Scientific Agricultural Research, Ministry of Agriculture and Agrarian Reform. Administrative work. Training and Planning and executing research projects for improving and development crop production and natural resources management. ICARDA's Board of Trustees 26/9/2013 to March 5 2014
- 2012- 2013 Deputy Director General of the General Commission of Scientific Agricultural Research, Ministry of Agriculture and Agrarian Reform. Administrative work. Training and Planning and executing research projects for improving and development crop production and natural resources management.
- 2007- 2012 Director of the Natural resources Research Directorate, General Commission of Scientific Agricultural Research, Ministry of Agriculture and Agrarian Reform. Member of the committee giving approval for importing and exporting fertilizers in Syria. Training and Planning and executing research projects for improving and development crop production and natural resources management. Synthesizing literature and developing progress reports. Studies on irrigation, water balance, plant nutrition and soil fertility, management of saline soils. Soil and water salinity management.
- 2002- 2007 Deputy Director of the Natural resources Research Directorate, General Commission of Scientific Agricultural Research, Ministry of Agriculture and Agrarian Reform. Administrative work. Training and in charge of soil, plant and water analysis laboratories at the ministry of agriculture in Syria. Planning and executing research projects for improving and development crop production and natural resources management. Synthesizing literature and developing progress reports. Studies on irrigation, water balance, plant nutrition and soil fertility, management of saline soils. Soil and water salinity management.
- 1998- 2002 Principal researcher at Soil Directorate, Ministry of Agriculture and Agrarian Reform. Administrative work. Training and Planning and executing research projects for improving and development crop production and rangelands management and soil erosion and hydrologic processes. Synthesizing literature and developing progress

reports on solute movement in soil-plant-water continuum. Studies on soil spatial variability, irrigation, water balance, management of saline soils. Modeling plant growth and hydraulic properties of soil surface. Soil and water salinity management.

Education

1990 Ph. D.	University Of Arizona, USA	Major in Soil physics/minor in hydrology,
1983 M. S.	Aleppo University-ICARDA	Major Irrigation and soil reclamation
1982 Diploma	Aleppo University	Major Irrigation and land reclamation
1987 B. S.	Aleppo University	faculty of agriculture

TEACHING, MENTORING AND OUTREACH ACTIVITIES

- **Lecturer:** *Fall 2017*, University of Nevada, Reno, NRES 322 Introduction to Soils; *Spring 2014*, University of Nevada, Reno: Instructor NRES 422 / 622 Soil physics
- Teaching Soil-Plant –Water relationships (graduate course, University of Damascus) (1999-2007)
- Teaching Soil physics (University of Damascus) (1999/2000)
- TA at University of Aleppo from 1977-1982 in the following courses:
 - - Metrology (practical and theoretical)
 - - Irrigation and drainage (practical and theoretical)
 - - Geology (practical)
 - - Analytical chemistry (practical)
- Training Workshop to 23 Tunisian participants from CREM-BGR project on DSSAT V 4.61 use from Jul 24 to Aug 7 2016.
- Training Workshop of English speaking Africans on Designing, Evaluating and Installing Different Irrigation Systems, Damascus – Syrian Arab Republic, 5/11 – 4/12/2006. (about 45 hours of lectures and practical training)
- Training Workshop of English speaking Africans on the Use of Modern Techniques in Irrigation Water Management and Fertigation, 6/3 - 2/4/2006, (about 45 hours of lectures and practical training)
- Training course of English speaking Africans at ACSAD August 11 to Sep 7, 2003 (about 50 hours of lectures and practical training on irrigation water management and fertigation).
- A training national course in Tunisia on using modern soil moisture and salinity instruments and scheduling irrigation of field crops. 6-3-8/7/2002.
- A training course on water harvesting techniques, The conservation and protection on sustainable agricultural biodiversity project. MAAR, Sep. 2000.
- A training course on the soil physical properties and their measurement. Irrigation Directorate, MAAR, Jun 2000.
- A training course on the hydro-physical properties of soils. Irrigation Directorate, MAAR, Feb 1999.
- Training course of isotope and radiation techniques in studies of soil and plant relationships with emphasis on soil water management” Seibersdorf , Austria, 6 weeks, 1993 (English, Practical part).
- Co adviser for over 30 MS students and 10 PhD students
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OTHER SKILLS

- **Language:** Fluent Arabic, English, basic French
- **Software Proficiency:** Fortran programming. Application of many decision support systems programs (DSSAT 4.2, SALTMED, WEEP, RHEM, statistical).

AWARDS AND HONORS

- Invention of fertilizer injector under pressure difference # 4955, 17/8/1999.

- Invention of an apparatus to add liquid fertilizers, under # 4913, 4/10/1998. And a gold medal from the eighth Al-Bassel fair for invention and innovation, April 1999.

FUNDED RESEARCH GRANTS AND PROPOSALS

- Introduction of the geospatial monitoring system for assessing the water balance.
- Upper Colorado River Basin Rangeland Salinity Control Project.
- RHEM model project in collaboration with USDA-ARS
- CRIS project for the range effort.
- Use of biochar and other products that we can use in rangeland restoration from Almonds/Walnuts to city trash.
- Technical coordinator of "Adaptation to climate change in WANA marginal environments through sustainable crop and livestock diversification" for Syria from Jun 2010 to June 2013.
- Technical coordinator of: Middle East Water and Livelihoods initiative, Improving Rural Livelihoods through Sustainable Water and Land-use Management, In Middle East Countries: Egypt, Iraq, Jordan, Lebanon, Palestine, Syria and Yemen. Supported by USAID, for Syria. From June 2009 to June 2013
- Technical coordinator of "Capacity and knowledge building on the Sustainable Use of Water RESources in Syrian Agriculture" SUWARESA Grant agreement no.: 266504. FP7-INCO-2010-6, ERA WIDE. Jan 2011 to Dec 2013, Currently suspended because of the situation in Syria.
- Joint collaborative research within in the: Sustainable Water Use Securing Food production in Dry Areas of the Mediterranean Region, Project supported by European Commission. work in partnership on the following activities: (1) use of saline water for evaluating the growth potential of food legume crops (chickpea, faba bean, and lentil); from Aug 2008 to Aug 2013.
- Technical coordinator of "Sorghum and Pearl Millet for Enhanced Crop-Livestock Productivity in Saline Lands - A Joint Project Proposal from The International Center for Biosaline Agriculture (ICBA) and The International Crops Research Institute for the Semi-Arid Tropics (ICRISAT)" for Syria from March 2007 to March 2011.
- Technical coordinator of "Saving freshwater resources with salt-tolerant forage production in marginal areas of (WANA) region, an opportunity to raise the income of the rural poor" project in Syrian Arab republic 2005-2009.
- Steering committee of "Applied Research Program for the Utilization of Brackish/Saline Water in North Africa project" funded by IFAD 2001 - 2005.
- Worked on the A Systems Approach to a Sustainable Increase in Irrigated Vegetable Crop Production in Salinity-prone Areas of the Mediterranean Region SALTMED project 1999 - 2003
- Worked on the interregional technical co-operation project INT/5/144 "The FAO/IAEA Interregional model project "Sustainable utilization of saline groundwater and wasteland for plant production" 1997 - 1998.
- Chief scientific Investigator of the research contract 311-D1-SYR-7946 "The use of nuclear techniques for optimizing fertilizer applications under irrigated wheat to increase the efficient use of fertilizers and reduce environmental pollution"1997 - 1998.

ONGOING PROJECTS AND COLLABORATIONS

USA:

Collaborators:

M. Wertz, Great Basin Rangelands Research Unit, USDA-ARS, Reno NV; S. KOSSI NOUWAKPO Natural Resources and Environmental Science, UNR, Reno, NV; K. McGwire, Desert Research Institute, Reno NV; O. Al-Hamdan, Department of Civil and Architectural Engineering, Texas A&M University - Kingsville; C. Williams, Southwest Watershed Research Center, USDA-ARS, Tucson, AZ; D. Toledo, Northern Great Plains Research Lab, USDA-ARS, Mandan, ND.

Projects:

Assessing Benefits of Conservation Practices on Rangelands and Pastures with the Rangeland Hydrology and Erosion Model.

Salt transport to surface waters in the Upper Colorado River Basin: process understanding, model development and mitigation strategies.

Ecohydrologic impact of Sagebrush ecosystem rehabilitation treatment in the Great Basin.

Improvement of the Rangeland Hydrology and Erosion Model

PROFESSIONAL AFFILIATIONS AND SERVICES

Reviewership

Irrigation and Drainage (IRD), Journal of Agricultural Science (JAS), Journal of Life Sciences (JLS), Journal Materials & Environment science (JMES), Transactions of the ASABE, Global Environment Outlook (GEO-6).

Expert missions:

International expert "Consultation with Governments and Stakeholders on GEO-6 Regional Assessment and Environmental Information Networking" and "Arab Region Environmental Information Network (AREIN) And Regional Data Issues Consultation First GEO-6 Regional Assessment Authors Meeting (West Asia). Amman, Jordan 10-14 May 2015.

International consultant "The 3rd (final) Regional Workshop for presenting and approving the Guidelines in Egypt, in May 4 - 5, 2015". Cairo, Egypt.

International consultant "2nd Regional Workshop on "Guidelines for Brackish Water Use for Agricultural Production in the NENA Region" during the period 9 - 11 December 2014

National expert for FAO "Agropolis project" for 10 days in Syria Dec 11, 2007.

Resource person in International workshop on "Role of modern irrigation techniques in improving food security" Amman, Jordan 1-7 May 2005

The International Atomic Energy Expert to Iraq for the mission IRQ/5/012/02-01 for saline soil fertility improvement 8-22/10/1999

Publications in refereed journals

Nouwakpo, S.K., C.J. Williams, F.B. Pierson, M.A. Wertz, A. Arslan, O.Z. Al-Hamdan. 2018. Effectiveness of prescribed fire to re-establish sagebrush steppe vegetation and ecohydrologic function on woodland-encroached sagebrush rangelands, Great Basin, USA: Part II: Runoff and Sediment Transport at the Patch scale. *Catena* 170 129–140.

Nouwakpo, S.K., M. Wertz, A. Arslan, C.H. Green, O.Z. Al-Hamdan. 2018. Process-based modeling of infiltration, soil loss and dissolved solids on saline and sodic soils. *Transactions of the ASABE* 61(3).

Nouwakpo, S.K., M.A. Wertz, C.H. Green. A. Arslan. Combining 3D data and traditional soil erosion assessment techniques to study the effect of a vegetation cover gradient on hillslope runoff and soil erosion in a semi-arid catchment (In review, *Catena*).

Yaghi, T., Aldarir, A.N., Nangia, V., Oweis, T., and Arslan A. 2016. Impact of Climate Changes on Water Resources Availability in the Orontes River Watershed: Case of Homs Governorate in Syria. *Jordan Journal of Agricultural Sciences*, Volume 12, No.2 499- 519.

Arslan, A., Majid G.A., Khalaf. A., P. Rameshwaran, Ragab R., Singh M. and Qadir M., 2016 . Evaluating the productivity potential of chickpea, lentil, and faba bean under saline water irrigation systems. *Irrig. and Drain.* 65: 19–28.

Ponnambalam R., Manzoor Q., Ragab R., Arslan A., Abdul Majid G. and Khalaf A., 2016. Tolerance of faba bean, chickpea and lentil to salinity: accessions' salinity response functions. *Irrig. and Drain.* 65: 49–60.

Adlah, W., Arslan A, and Khorshid A. 2015 Effect of Green Manure and Nitrogen Fertilizer on Nitrogen Uptake, Content and Its Distribution among Different Cotton Plant Parts in AL-Ghab Plain. *JJAS* 11 (1) pp. 243-263.

Al Hamdan1, M., I. Al Khouri2, A. Arslan 2014. Use of the universal soil-loss equation to determine water erosion with the semi-circular bund water-harvesting technique in the Syrian steppe. *International Journal of Environment.* Volume-3, Issue-2, pp. 1- 11.

- Inaya Kanshaw, I., A. Arslan and A. Fares, 2013. Response of grain yield and its components in durum wheat (*Triticum turgidum* L. var. durum) to different levels of irrigation water, nitrogen and nitrogen application timing. University of Adan Journal of natural and applied science Vol 3.
- Sarboukh, S., R. Henidy and A Arslan. 2014. The Relationship between the Bulk Density and Volumetric Soil Moisture Content for a Swelling Heavy Clayey soil in Syria. JJAS, 10(2) Pp 346-357. (In Arabic).
- Khaskhoussy, K., Hachicha, M., Kahlaoui, B., Messoudi-Nefzi, B., Rejeb, A., Jouzdan, O., Arslan, A. 2013 Effect of treated wastewater on Soil and Corn Crop in the Tunisian Area. Journal of Applied Sciences Research, 9(1): 132-140
- Mohamed Hachicha, Sabri Kanzari, Mohsen Mansour, Omar Jouzdan and Awadis Arslan 2013. Salinity Risk and Management in Tunisian Semi Arid Area. Journal of Life Sciences . David Publishing Company 7: 2(58)pp 196-201
- Yaghi, T., A. Arslan, and F. Naoum 2013. Cucumber (*Cucumis sativus*, L.) water use efficiency (WUE) under plastic mulch and drip irrigation. Agricultural Water Management 128 (2013) 149– 157.
- Al-hamdan, I. M., I. Al-khouri and A. Arslan.2013. Studying The Effect of Using Different Dimensions Of Semi Circular Bunds of Water Harvesting Techniques On Watery Storing Efficiency In The Soil, And on Improving Vegetation Cover by Planting Atriplex Halimus Shrubs In Syrian Baddia (Qaryatein).JJAS, (9), Pp 561-575.
- Abdelghani Alkhalidi, Abdel Naser Aldarir, Mussaddak Janat, Ammar Wahbi and Awadis Arslan. 2012. Effect of Regulated Deficit Irrigation and Partial Root-zone Drying on Some Quantitative Indicators and the Efficiency of Adding Nitrogen Fertilizer to (*Zea mays* L.) By Using N15 Isotope. American-Eurasian J. Agric. & Environ. Sci., 12 (9): 1223-1235.
- Suleiman, A., A Arslan and F.Abu Nikta.2012. The fate of adding different forms of P and N to two water qualities in fertilization tanks and soil. Advances in microbiological hazards and biotechnologies. Pp109-117.
- Arslan, A. T. Yaghi, and F. Naoum. 2011. Effect of Plastic Films "Mulch" on Soil Temperature and Cucumber Production. JJAS 7(2), Pp 374-389. (In Arabic).
- Adlah, W. A. Arslan, and A. Khorshid. 2011. Effect of Organic and Mineral Nitrogen Fertilization on the Production Components of Cotton (Strain 124) Under Al-Ghab Plain Conditions. American-Eurasian J. Agric. & Environ. Sci., 11 (4): 534-541
- Arslan, A. A. Isa and M. Nakeshbandi. 2010. Effect of irrigation by saline water on some root traits in rhizosphere zone and its effect on Triticum and Millet yield under lower Euphrates basin conditions. The Arab Journal of Arid Environments 3(1) Pp 37-48.
- Al-Abdullah, B., A. Hazzouri, and A. Arslan, 2010. Wastewater irrigation: Effects on heavy metals availability in Soil. J. Biol. Chem. Environ. Sci. Vol.5(2)173-189.
- Isa, A., A. Arslan and M. Nakeshbandi, 2009. Effect of irrigation by saline water on some root traits in rhizosphere zone and its effect on two forage crop yield under lower Euphrates basin conditions. The Arab Journal of Arid Environments 2(3) Pp 65-75.
- Al Zoubi, M.M., A. Arslan, G. Abdelgawad, N. Pejon, M. Tabbaa and O. Jouzdan. (2008) The Effect of Sewage Sludge on Productivity of a Crop Rotation of Wheat, Maize and Vetch) and Heavy Metals Accumulation in Soil and Plant in Aleppo Governorate American-Eurasian J. Agric. & Environ. Sci., 3 (4): 618-625
- Qadir, M., A. D. Noble, S. Schubert, R.J. Thomas and A. Arslan 2006. Land sodicity-induced land degradation and its sustainable management: Problems and prospects degradation & development Land Degrad. Develop. 17: 661–676
- Ragab, R., N. Malash, G. Abdel Gawad, A. Arslan, A. Ghaibeh 2005. A holistic generic integrated approach for irrigation, crop and field management 2. The SALTMED model validation using field data of five growing seasons from Egypt and Syria. Agricultural Water Management 78 (2005) 89–107
- Ragab, R., N. Malash, G. Abdel Gawad, A. Arslan, A. Ghaibeh 2005. A holistic generic integrated approach for irrigation, crop and field management 1. The SALTMED model and its calibration using field data from Egypt and Syria. Agricultural Water Management 78 (2005) 67–88.

- Abdel Gawad, G., A. Arslan, A. Gaihbe, F. Kadouri, 2005. The effects of saline irrigation water management and salt tolerant tomato varieties on sustainable production of tomato in Syria 1999–2002). *Agricultural Water Management* 78 (2005) 39–53.
- Flowers, T.J., R. Ragab, N. Malash, G. Abdel Gawad, J. Cuartero, A. Arslan. 2005. Sustainable strategies for irrigation in salt-prone Mediterranean: SALTMED. *Agricultural Water Management* 78 (2005) 3–14
- Arslan, A., Zapata, F. and Kumarasinghe K. S. 1999 Carbon isotope discrimination as an indicator of water use efficiency of spring wheat as affected by salinity and gypsum addition. *Commun. Soil Sci. Plant Anal.* Vol 30:19&20: 2681-2693.
- Al_Oudat, M., Arslan A., and Kanakri S. 1998. Physical and chemical properties, plant growth, and radionuclide accumulation effects from mixing phosphogypsum with some soils. *Commun. Soil Sci. Plant Anal.* 29:2515-2528.
- Arslan A., Razzouk A.K., and Al-Ain F. 1997. The performance and radiation exposure of some neutron probes in measuring the water content of the topsoil layer. *Aust. J. Soil Res.* 35:1397-1407.
- Arslan A. and Kurdali F. 1996. Rainfed vetch-barley mixed cropping in Syrian semi-arid conditions. II. Water use efficiency and root distribution. *Plant and Soil* 183:149-160.
- Kurdali F., Sharabi N.D. and Arslan A. 1996. Rainfed vetch-barley mixed cropping in Syrian semi-arid conditions. I. nitrogen nutrition using ¹⁵N isotopic dilution. *Plant and Soil* 183:137-148.
- Arslan A. 1995. A computer program to express the properties of gypsiferous soils. *Can. J. of Soil Sci.* 75:459-462.
- Arslan A. and Razzouk A.K. 1994. Effects of gypsum on the neutron probe calibration curve. *Soil Sci.* 158:174-180.
- Arslan A. and Dutt G.R. 1993. Solubility of gypsum and its prediction in aqueous solutions of mixed electrolytes. *Soil Sci.* 155:37-47.
- Weltz M. A., Arslan A., and Lane L.J. 1992. Hydraulic roughness for native rangelands. *J. of Irrig. and Drain. Engi.* 118:776-790.

In addition to many publications in Arabic

Other publications

- Arslan A. 2016. One of the lead authors of Chapter 2, State of the Environment and Policy Responses. In *Global Environment Outlook (GEO-6) Regional Assessment for West Asia* Pp 32 - 93.
- Arslan A. 2016. Modern technologies and their contribution to rationalize the consumption of water resources in agriculture. The international symposium on integrated management of water resources and environmental protection Jul 17 to 19 Tartous, Syria.
- Arslan A., 2014. productivity of forage crops in Syrian saline conditions. 2014. A report of some outcomes of the " Adaptation to climate change in wana marginal environments through sustainable crop and livestock diversification" for Syria from Jun 2010 to June 2013 project. Pp 425.(English and Arabic)
- Arslan, A., 2013. Successful story of Syrian self-sufficiency in wheat. International Conference on Policies for Water and Food Security in Dry Areas. Cairo, Egypt. 24-26 June 2013
- Matsushima, S., A. Arslan and B.Al-Husein. 2011. Challenges of converting to efficient water saving irrigation in Syria. In *Innovation in Technology and Management of Micro-irrigation for Crop Production Enhancement*, ICID-CIID, 8th International Micro Irrigation Congress, 21 October 2011, Tehran, Iran. Pp. 480-488.
- Al-Jassem, W., A. Arslan and F. Al-Sied. 2009. Common weeds among fodder crops under saline conditions in Syria. In *Sustainable Management of Saline Waters and Salt-Affected Soils for Agriculture*, Proceedings of the Second Bridging Workshop. 15-18 November 2009, Aleppo, Syria. Pp 43-48.
- Arslan A. 2007. Report to FAO "Land Resources Use and planning" TCP/SYR/3102. p. 36.
- Hamdan, A. and A. Arslan. 2007. The Effect of Wastewater Application on Parsley Yield and Heavy Metals Accumulation in Soil and Plant. Proceedings of the First Workshop: Sustainable Management of Wastewater for Agricultural Production in Water Scarce Countries 11–15 November 2007, ICARDA, Aleppo, Syria. Pp. 72 – 77.

- Arslan, A. M. M Al-Zoubi, H. Nasralla, N. Bijor, J. Abdul Gawad, and O Jusadan. 2007. The effect of mixing sludge with surface soil layer on the physical properties and cotton yield. Proceedings of the First Workshop: Sustainable Management of Wastewater for Agricultural Production in Water Scarce Countries 11–15 November 2007, ICARDA, Aleppo, Syria. Pp. 58 – 65.
- Al-Zoubi, M. M., A. Arslan, G. Abdelgawad, N. Pejon, M. Tabbaa, and O. Jouzdan 2007 .Effect of sewage sludge on heavy metal accumulation in soil and plant and productivity of certain crops in Aleppo governorate. Proceedings of the First Workshop: Sustainable Management of Wastewater for Agricultural Production in Water Scarce Countries 11–15 November 2007, ICARDA, Aleppo, Syria. Pp. 33 - 40
- Jamal, M A. Arslan, and K Dayoub. 2006 Harnessing salty water to enhance sustainable livelihoods of the rural poor in four countries in West Asia and North Africa: Syria. ICBA National Report_Syria Part 1 Pp 37.
- Arslan A., Abdelgawad A., Gaibeh A., and Kadouri F. 2004.The effects of irrigation water salinity on tomato fruit size and the accumulation of ions in the leaves and roots. The 55th International Executive Council Meetings of the International Commission on Irrigation and Drainage (ICID) in Moscow (5-11 September 2004) pp 54-66.
- Abdelgawad A., Arslan A., Awad F., and Kadouri F. 2004. Deep plowing management practice for increasing yield and water use efficiency of, vetch, cotton, wheat and intensified corn using saline and non saline irrigation water. The 55th International Executive Council Meetings of the International Commission on Irrigation and Drainage (ICID) in Moscow (5-11 September 2004) pp 67-78.
- Ragab, R., N. Malash, G. Abdel Gawad, A. Arslan and A. Ghaibeh 2003. A Holistic Generic Integrated Approach for Irrigation, Crop and Field Management: 3- The SALTMED model validation using field data of five growing seasons from Egypt and Syria. Proceedings of an International Workshop on sustainable strategies for irrigation in salt-prone Mediterranean region; A system approach, Cairo, Egypt, December 8-10, 2003. pp 115 – 136.
- Ragab, R., N. Malash, G. Abdel Gawad, A. Arslan and A. Ghaibeh 2003. A Holistic Generic Integrated Approach for Irrigation, Crop and Field Management: 2- The SALTMED model calibration using field data from Egypt and Syria.). Proceedings of an International Workshop on sustainable strategies for irrigation in salt-prone Mediterranean region; A system approach, Cairo, Egypt, December 8-10, 2003. pp 98 - 114
- Abdel gawad, G., A. Arslan, A. Gaihbe, and F. Kadouri 2003. The effects of saline irrigation water management and salt tolerant tomato varieties on ustainable production of tomato in Syria (1999-2002). Proceedings of an International Workshop on sustainable strategies for irrigation in salt-prone Mediterranean region; A system approach, Cairo, Egypt, December 8-10, 2003. pp 33 – 45
- Flowers, T. J., S A Flowers, A R Yeo, J Cuartero, M C Bolarín, F Pérez-Alfocea, A Ghaibeh, A Gilani, A Arslan, N. Malash, and R Ragab 2003. SALTMED: A Summary of the project. Proceedings of an International Workshop on sustainable strategies for irrigation in salt-prone Mediterranean region; A system approach, Cairo, Egypt, December 8-10, 2003. pp 9-19.
- Abdelgawad G. Arslan1 A. Gaibeh A. Kadouri F. 2002, Salinity changes in lysimeters cultivated by wheat, corn, cotton and vetch in crop rotation by using different irrigation water qualities. INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE Eighteenth Congress Montreal 2002.
- Arslan A. 2000. Theoretical and physical analysis of carbonate precipitation in drip irrigation systems. The fourth scientific conference of the scientific agricultural researches, Ministry of Agriculture and Agrarian reform, 21 to 21 Sep. 2000
- Arslan A. Kurdali F. and Al-Shayeb R. 2000. Optimizing nitrogen uptake efficiency by irrigated wheat to reduce environmental pollution. International Atomic Energy Agency, TECDOC-1164:31-47.
- Arslan A., Al-Ain F., and Sharabi N. D. 1996. The effects of salinity and simulation by low doses of gamma radiation on wheat germination. The third Arab conference on the peaceful use of nuclear energy. 9 to 13 Dec. 1996. Damascus Syria.

- Oudat, M., Arslan A., and Knakri S. 1996. The effects of mixing phosphogypsum with soils on their physical and chemical properties, plant growth and radionuclides accumulation. The third Arab conference on the peaceful use of nuclear energy. 9 to 13 Dec. 1996. Damascus Syria.
- Arslan A. and Dutt G.R. 1992. Modeling water quality for soils containing gypsic horizon. The conference of gypsiferous soils management. ICARDA, Aleppo, Syria. Nov. 23 to Nov. 27 1992.
- Arslan A. and Razzouk A. K. 1992. The effect of gypsum and bulk density on neutron probe calibration curve. The conference of gypsiferous soils management. ICARDA, Aleppo, Syria. Nov. 23 to Nov. 27 1992.
- Weltz A. M. and Arslan A. 1990. Water Erosion Prediction project (WEPP): Estimation plant components that are used to simulate soil erosion on rangelands. International Symposium on Water Erosion, Sedimentation and Resource Conservation. Oct. 9-13 Dehradun, India.p 71-82.
- Arslan A. 1982. The optimum use of soil moisture in rainfed agriculture using crop rotations. Research Journal of Aleppo University.p 227-236.