



Arafat Ahmed Naji Al-Khasha

Nationality: Yemeni.

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[Arafat Al Khasha - Google Scholar](#)

[Alkhasha, Arafat - Author details - Scopus Preview](#)

Education Background:

Degrees	Major	University	Grad. Year	GPA	Country
Ph.D. Degree	Soil Science	King Saud University	2019	4.59/5	Kingdom of Saudi Arabia
Master's Degree	Soil Science	King Saud University	2013	4.67/5	Kingdom of Saudi Arabia
Bachelor's Degree	Soil Science	Sanaa University	2006	81.83%	Republic of Yemen

Employment History and Professional experience:

Date	Position Title - Organization
2019- Now	Full researcher after (P.h.D) College of Food and Agricultural Sciences, King Saud University, Riyadh - KSA.
2013 - 2019	Researcher A ((P.h.D) Student), College of Food and Agricultural Sciences, King Saud University, Riyadh - KSA. <i>A Tasks</i> <ol style="list-style-type: none">1- Physical Analysis of Soil.2- Designer of Irrigation Water System (Drip).3- Calculate of Water Requirement for Crops.4- Laboratory and Field Experiments Work (<i>collection of data</i>).5- Lab. Works.6- Prepared Articles, Reports, and Presentations7- Contribute to The Research projects and Field Studies.8- Carry out Field Works and Consultation with the Principal Investigator and Project Coordinator9- Contributed to of Preparation and Drafting of The Research Projects and proposals.10- Contribute to the overall Activities of the Research Team and Department as Required.11- Provide Support outside Class, Such As Helping during Exams and helping in the lab of soil physical research.
2010 - 2013	Researcher B (M.S Student), College of Food and Agricultural Sciences, King Saud University, Riyadh- KSA.
<i>A Tasks</i>	<ol style="list-style-type: none">1- Chemical- Physical Analysis of Soil and water.2- Laboratory and Field Experiments Work (<i>collection of data</i>).
2009 - 2010	Research Assistant- Agricultural Research & Extension Authority (AREA) - El kod Agricultural Research Station - Aden - Abyan
<i>A Tasks</i>	<ol style="list-style-type: none">1- Data Collection and Identification.2- Designer of Irrigation Water System (drip, bubbler and sprinklers)3- Physical Analysis of Soil
2007 - 2009	Engineer of Irrigation - Project of Groundwater and Soil Conservation in Sanaa - Sa'ada - government
	<ol style="list-style-type: none">1- Field survey tasks for the modern irrigation system.

A Tasks

- 2- Design of modern irrigation systems, maintenance and installation of the system.
 - 3- Collect the data that which a related to crops, modern irrigation system and water requirement for crops
 - 4- Implementation of irrigation networks system in agricultural fields
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Submitted and under review :

1. **Arafat Alkhasha** Abdulrasoul Al-Omran^{a*} and Ibrahim Louki^a, *Impact of Climate Change and predict Water Requirement, yield and Soil Moisture Distribution, of potato crop in Riyadh, Saudi Arabia by SaltMed and VS2d Models.*
2. Abdulrasoul Alomran*, Mohammed Awad, Abdulaziz AlGhamdi and **Arafat Alkhasha**. *Effects of mechanical synthesis of magnetic biochar nanoparticles using ball-mill on the hydro-physical properties of sandy soils: influence of particle size and application depth.*

Publications List:

- 1- Abdulaziz G. Alghamdi Abdulrasoul Arafat Alkhasha and Anwar AlyAnwar Aly. *Significance of Pyrolytic Temperature, Particle Size, and Application Rate of Biochar in Improving Hydro-Physical Properties of Calcareous Sandy Soil.* December 2021 *Agriculture* 11(12):1293.
- 2- Abdulaziz G. Alghamdi, **Arafat Alkhasha**, and Hesham M. Ibrahim, *Effect of biochar particle size on water retention and availability in a sandy loam soil - Journal of Saudi Chemical Society.*
- 3- Abdulrasoul Al-Omran* Ibrahim Loukia, **Arafat Alkhashaa**, Mohamed Hassan Abd El-Wahedc, and Abdullah Obadid , *Yield, Moisture, Salinity and Nitrogen Simulation Using SALTMED Model Application for Potato under Partial Root-Zone Drying Irrigation Technique, irrigation science.*
- 4- **Arafat Alkhasha**, Abdulrasoul Al-Omran * and Abdulaziz G. Alghamdi , *Effect of Water Quality and Date Palm Biochar on Evaporation and Specific Hydrological Characteristi of Sandy Soil.* *Agriculture* **2020**, 10, 300
- 5- **Arafat Alkhasha**, Abdulrasoul Al-Omran.(2020). *Evaluating the Effects of Biochar and SAP Polymer on Soil Physical Quality Indices.* (Communications in Soil Science and Plant Analysis, <https://doi.org/10.1080/00103624.2020.1751193>)

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- 6- **Arafat Alkhasha**, Abdulrasoul Al-Omran and Ibrahim Idriss Louki (2019). *Impact of Deficit Irrigation and Addition of biochar and polymer on soil salinity and tomato productivity*. <https://doi.org/10.1139/CJSS-2019-0016>
 - 7- **Arafat Alkhasha**, Abdulrasoul Al-Omran. (2019). *Simulate Yield of Tomato, soil moisture and salinity using Fresh and Saline Water: Experimental and Modelling Study by SALTMED Model*. *irrigation science*37:637–655.
 - 8- **Alkhasha, A.**, Al-Omran, A., & Aly, A. (2018). *Effects of Biochar and Synthetic Polymer on the Hydro-Physical Properties of Sandy Soils*. *Sustainability*, 10(12), 4642.
 - 9- Alghamdi, A. G., Aly, A. A., Al-Omran, A. M., & **Alkhasha, A.** (2018). *Impact of biochar, bentonite, and compost on physical and chemical characteristics of a sandy soil*. *Arabian Journal of Geosciences*, 11(21), 670.
 - 10- Aly, A. A., Al-Omran, A. M., & **Khasha, A. A.** (2015). *Water management for cucumber: Greenhouse experiment in Saudi Arabia and modelling study using SALTMED model*. *Journal of soil and water conservation*, 70(1), 1-11.
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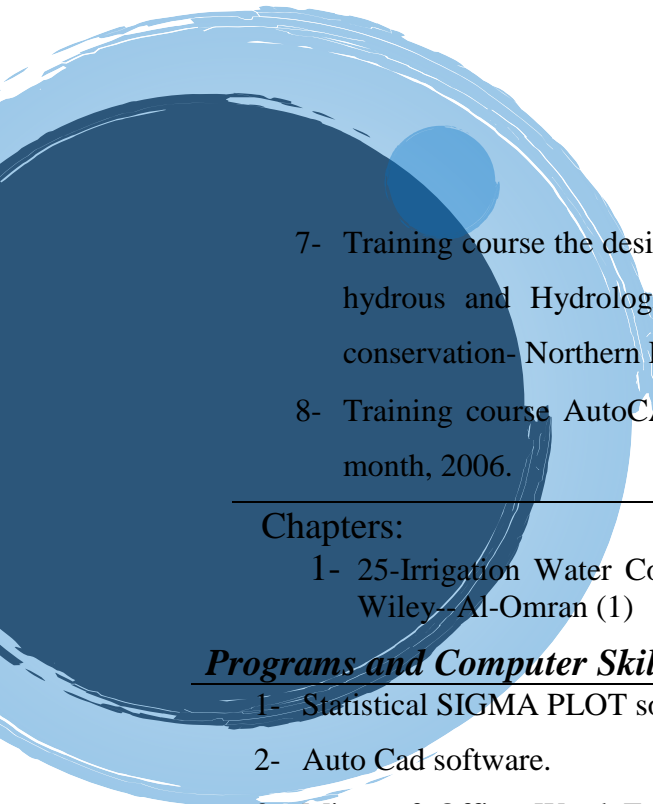
Conferences and oral presentations

- 1- Arafat Alkhasha, 8th International conference on water resources and arid environments 22-24 January 2019.
- 2- Arafat Alkhasha, Abdulrasoul Al-Omran, and Anwar Aly (2018) Effect of biochar and synthetic polymer on hydro-physical properties of sandy soil under fresh and saline water. The 11th Conference "Concepts of Sustainability of Natural Resources and the Future of Agricultural Development under Vision 2030 -Saudi Society for Agricultural Sciences -King Saud University -Saudi Arabia. 2-4 April 2018.
- 3- Arafat Alkhasha, 7th International conference on water resources and arid environments 4-6 December 2016.
- 4- Arafat A. alkhasha, Anwar aly and Andulrasoul Masa Al Omran. Saltmed Model in Sustainable Irrigation Management in Saudi Arabia. November 5, 2013. Tampa Florida. <https://scisoc.confex.com/crops/2013am/webprogram/Paper81158.html>

- 5- Participant in the Fourth International Conference for Agriculture and Rural Development – Ha'al Saudi Arabia 1432.
 - 6- Arafat Alkhasha (speaker), Effect of Deficit Irrigation on Crop Production, Department of Soil Science, King Saud University (2018).
 - 7- Arafat Alkhasha (speaker), Accelerated Surface Area and Porosimetry 2020 System, Department of Soil Science, King Saud University (2016).
 - 8- Arafat Alkhasha (speaker), Performance of SALTMED Model, Theory and Application, Department of Soil Science, King Saud University (2015).
 - 9- Arafat Alkhasha (speaker), Simulate of water content and salt distribution Department of Soil Science, King Saud University (2014).
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Professional Training:

- 1- Training course the operation and design of modern irrigation networks - Agricultural Engineers Association - Hashemite Kingdom of Jordan for the period from 4/4/2009 to 16/4/2009.
- 2- Training course the instructive training of new affiliated members - the category of researchers - the General Authority for Agricultural Research and guidance for period from 27 to 31/12/2008.
- 3- Training course irrigation management and preserve of Water - Water and Environment Center - in concert with the World Bank Washington, Sana'a University, for the period from 16 to 19.11.2008.
- 4- Training course for irrigation engineers – in northern units Sana'a - Haja - Shabwa - in the design of the modern irrigation systems, and water requirement for crops, irrigation scheduling using GROP.WAT, and evaluation of field irrigation efficiency within a project of groundwater and soil conservation for the period from 19 to 22, May 2007.
- 5- Training course the analysis of soil and water - the General Authority for Agricultural Research and instruction - Northern Highlands for 15 days in 2004.
- 6- Training course the design of modern irrigation systems, maintenance and installation of pumps - Agriculture and Irrigation Office - municipality for 15 days in 2004.

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- 7- Training course the design, operation and maintenance of modern irrigation system, hydrous and Hydrological conduction within project of groundwater and soil conservation- Northern Field Unit for 15 days 2004.
 - 8- Training course AutoCAD program - Computer Center - Sana'a University for a month, 2006.
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Chapters:

- 1- 25-Irrigation Water Conservation in Saudi Arabia-Abdulrasoul M. HWHC-V2- Wiley--Al-Omran (1)

Programs and Computer Skills

- 1- Statistical SIGMA PLOT software.
 - 2- Auto Cad software.
 - 3- Microsoft Office: Word, Excel and PowerPoint.
 - 4- SALTMED model
 - 5- Endnote 7.0.
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Languages Spoken

- 1- English: good in written and spoken English.
 - 2- Arabic: fluent in written and spoken Arabic.
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References available upon request

