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Name: Islam Mohammed Monier Khater

Company: Desert Research Center

Position Title: Professor of Agricultural Engineering

Month, and year of employment:

<https://orcid.org/0009-0002-3987-5763>

Birthday: Dec-5-1973

Private address: 8 Khater House Heria New Road, Abd El-Aziz

Dept. Zagazig-Egypt. Zip Code (44111)

University degree:

1-Diploma in Sustainable Agriculture. Mediterranean Agronomic Institute of Bari (IAMB)- Italy (2007)

2-Ph.D. Agricultural Engineering Zagazig Univ. (2005)

3-Diploma in Applied System Analysis (Dynamic Systems). International Institute for Applied Systems Analysis (IIASA). Austria (2004)

4- M.Sc. Agricultural Engineering Zagazig Univ. (2000)

5- B.Sc. Agricultural Engineering. Zagazig Univ. (1995)

Work of Employment: Desert Research Center (DRC) Cairo-Egypt. Working as tutor in International Institute for Applied Systems Analysis. Austria (2004)

Position: Professor in (Agri- Engineering).

Research work: Sustainable development, Natural resources and environmental management, precision agriculture, Agri-training management, technology transfer, analysis, Climate change and desertification, organic agriculture, computer modeling, farm management and applied system analysis.

Visited Countries: Italy, Tunisia, Austria, Australia, Morocco, Malta, Germany, China and The Netherlands.

Training stages:

1- Introduction to Remote Sensing Derived FAO WaPOR Database," part of the project "Monitoring Land and Water Productivity by Remote Sensing (WaPOR Phase 2). (June 04-2024) Egypt.

2- Stakeholder consultations workshop "Egyptian Irrigated Agriculture: Sustainable Intensification and Climate Adaptation Strategies at the Forefront (ICARDA May 19-2024) Egypt.

3- Water management. (SHIRAKA-The Hauge Academy of Local Governance-VNG 2022.The Netherlands)

4- On-farm water management. (ICARDA- JICA 2018.Egypt)

5- Water Supply and Waste Water Treatment Technology for Developing Countries. (Suzhou University-China 2017)

6- Salinity management. (ICARDA- JICA 2017.Egypt)

7- First international conference Afro-Mediterranean soils: constraints and potentialities durable management. (INRA Morocco 2015)

- 8- Climate change adaptation for water, food and environment security. (IAMBMWRI 2015.Egypt)
- 9- Sustainable Agriculture innovation systems for small scale farmers. (IAMB 2012.Italy)
- 10- Australian agriculture and irrigation farming systems study tour and project planning workshops (ACIAR 2011)
- 11-Course in Sustainable Agriculture. (IAMB 2006.Italy)
- 12-Young Scientists Summer Program. Dynamic Systems Dept. (IIASA. 2004. Austria)
- 13- International Training Course on Technologies of Waste Treatment &Environmental water Pollution Control. (JICA 2003. Tunisia).
- 14-International Training Course on Conservation Agriculture for African and Near East Countries. (FAO. 2002. Italy)
- 15- Courses in sustainable development for Desert Areas (DRC) 1996
- 16-Courses in irrigation design and management (Agricultural Engineering Research Institute) 1995

Participation in scientific projects:

- 1- Development in North Western Coast of Egypt- Matrouh Governorate (1998-2003)
- 2- Building informatics and digital mapping for Egyptian deserts (2005-2010)
- 3- Developing the potato crop mechanization system in upper Egypt (2011-2013)
- 4- Sustainable Agriculture innovation program for small scale farmers in Sharkia Governorate (2013-2016)
- 5- Geographical information system for water resources in Western desert of Egypt (2018- 2021)
- 6- project "Monitoring Land and Water Productivity by Remote Sensing (WaPOR Phase 2). (June 04-2024) Egypt.

Publications:

- 1-Comparison Study on Different Conservation Tillage Systems Under Conditions of New Reclaimed Soils. (M.Sc. 2000)
- 2-Desertification-Its Causes and Its Impact on Water Resources Management in Arid Regions (Res. Paper TCTP.INRST. Tunisia-2003)
- 3-The environmental problems for the Arab researcher and the developmental impact for future studies (Res. Paper Arab Scientific Research Federation Councils 2003-Cairo)
- 4- Desertification-Its Causes and Its Impact on Water Resources Management in Arid Regions (Res. Paper TCTP.INRST. 2003) under sprinkler irrigation condition Res Paper Arabic Scientific Research Union 2003-Cairo)
- 5-Effect of tillage practices on soil erosion by wind under conditions of new reclaimed areas. (Res. Paper Zagazig Journal of agricultural research 2005-Egypt)
- 6- Effect of tillage practices on soil erosion by wind under conditions of new reclaimed areas (Ph.D. 2005)
- 7-SAREP efforts of confronting the phenomenon of rice straw burning and the black cloud (Rep.IAMB.2007)

8- **Islam M. M. Khater**; Mona M. A. Hassan; Mladen Todorovic and Mohamed F. Kassab (2007): Assessment of Conservation Tillage Techniques in Sugar Beet Production. Status of Mediterranean Soil Resources: Actions needed to support their sustainable use. Tunis, Tunisia 26 – 31 May 2007

9- **Islam M. M. Khater**; Mona M. A. Hassan and Baran Yasar (2008): Energy Consumed for Barley Production in The Reclaimed Lands of Egypt. J. Agric. Mach. Sci., 4(2), 171-178. Turkey

10- **Islam M. M. Khater** (2009): Effect of Field Size on Mechanical Wheat Seeder Performance in Reclaimed Lands of Egypt. J. Agric. Mach. Sci., 5(1), 45-51. Turkey

11- Ali M. H. and **Khater I. M. M.** (2009): Effect of Chisel & Rotary Cultivator and Organic Manure application on Improving the Properties of Calcareous Soil. Egypt. J. Soil. Sci., 49 (1): 113-129.

12- Mohamed Ali Tawfik and **Islam M. M. Khater** (2009): Evaluation of Performance Methods of a Twin Disc Fertilizer Spreader in New Reclaimed Areas. Misr J. Agri. Eng., 26(2), 624-643).

13- **Islam M. M. Khater** (2009): Effect of Some Forward Speeds of Mechanical Harvesting on Potato Damage in South Eastern Qantara. 4th Conference on Recent Technology in Agriculture: Challenges of Agriculture Modernization, Proceedings 3-5 November 2009, Vol.III Soil, Water & Agric. Eng.

14- Islam M. M. Khater (2009): Comparison Study Between Some Land Reclamation Machinery to Evaluate the Performance in the New Reclaimed Areas of Egypt. J. Agric. Mach. Sci., 5(1), 53-59. Turkey

15- **Khater, I. M. M.** and M. H. Ali (2010): Effect of The Interaction Between Sulphur Addition and Tillage Systems on Salts Movement and Productivity of Calcareous Soil. Egypt. J. of Appl. Sci., 25 (1): 1-16.

16- **Islam M. M. Khater** (2010): Comparison Study Between Some Minimum Tillage Systems in Sandy Loam Soil. Egypt. J. of Appl. Sci., 20(5)286-296

17- **Islam M. M. Khater** (2010). Effect of some chisel plow patterns on soil physical properties and productivity in El- Tina plain. Egypt. J. of Appl. Sci., 26(7)272-280

18- الحراثة الحافظة – تقنية جديدة – مالها وما عليها- (2011).

www.env-news.com/in-depth/studies- الحراثة الحافظة – تقنية جديدة – مالها وما عليها-
html/researches/2814

19- **Khater M. M. I.** (2015): Comparative effect of some planter furrow openers and seed covering devices on some soil properties and crops productivity. Misr J. Agri. Eng., 32(4), 1471-1484).

20- **Khater M. M. I.** (2015): Effect of polyvinyl acetate spraying on soil water retention and productivity of potato. Misr J. Agri. Eng., 32(4), 1577-1588.

21- **Khater M. M. I.** (2016): EVALUATION OF A SIMPLE MANUALLY OPERATED PLANTING UNIT SUITABLE FOR SLOPING LANDS. Misr J. Agri. Eng., 33(1), 13-28).

22- **Khater M. M. I.** (2016): USING DIFFERENT TYPES OF SUBSOILER SHARES TO IMPROVE THE PRODUCTIVITY OF COMPACTED SOILS. Misr J. Agri. Eng., 33(2), 335-352.

23- **Khater M. M. I.** (2016): EFFECT OF SEASONAL TILLAGE ON SOME SOIL PROPERTIES, ENERGY PARAMETERS AND PRODUCTIVITY UNDER RECLAIMED SOIL. Misr J. Agri. Eng., 33(4), 1207-1222.

- 24 -**Khater M. M. I. (2016):** USE OF MECHANISATION INDEX FOR ASSESSING LEVEL OF ENERGY CONSUMPTION IN SOME NEWLY RECLAIMED AGRICULTURAL FARMS. *Misr J. Agri. Eng.*, 33(4), 1223-1238.
- 25-**Khater M. M. I. and Mona M. El Shazly (2016):** COMPARITIVE STUDY BETWEEN DIFFERENT CHOPPING ROTATIONS AND RAW MATERIALS FOR COMPOSTING PROCESS. *Egypt J. Soil Sci.*, 56(3), 387-402.
- 26 -**Khater M. M. I. (2017):** USING AND VERIFYING SEEDCHASER MODEL TO EVALUATE THE ROLE OF TILLAGE MACHINES IN SEED WEEDDISTRIBUTION IN NEW EL-SALHIA REGION. *Misr J. Agri. Eng.*, 34(2), 679- 698.
- 27- **Khater M. M. I. (2017):** DESIGING A SOFTWARE TO CALCULATE THE FIELD CAPACITY FOR FULL MECHANIZED AGRICULTURE PRACTICES IN LIGHT SOILS. *Misr J. Agri. Eng.*, 34(3), 1143-1154.
- 28- **Khater M. M. I. (2017):** Evaluation of efficiency for using planting machines in conservation agriculture system under saline conditions. Under Publishing
- 29- **Khater M. M. I. and Mona Mahmoud (2017):** EFFECT OF SOME SOIL MULCHING SYSTEMS ON WEED CONTROL AND PRODUCTION OF STRAWBERRY IN NEW EL SALHIA REGION. *Misr J. Agri. Eng.*, 34(3), 1465-1474.
- 30- **Khater M. M. I. (2019):** MECHANICAL COATING OF CUMIN SEEDS FOR SUITING ITS PLANTING UNDER CONSERVATIONN TILLAGE SYSTEMS. *Egypt J. Appl. Si.*, 34(5), 136-146.
- 31- **Khater M. M. I., Ehab Elsayed Abdelrehim and Haytham Mohamed Salem (2019):** MANUFACTURING A MACHINE FOR INCREASING RUNOFF USE EFFICIENCY IN WADI EL RAML- MATROUH-EGYPT. *Egypt. J. of Appl. Sci.*, 34(7), 252-236.
- 32- **Khater M. M. I. (2019):** DEVELOPING AND PERFORMANCE EVALUATION OF COMPOST PELLETING MACHINE. *Egypt. J. of Appl. Sci.*, 34(7), 238-251.
- 33- **Khater M. M. I. and Mona M. Abd El Aziz (2020):** IMPROVING THE PERFORMANCE OF CHOPPER MACHINE BY COATING STEEL KNIVES. *Egypt. J. of Appl. Sci.*, 35(1), 1-10.
- 34- **Khater M. M. I. (2020):** USING HYDRAULIC BRIQUETTING MACHINE TO PRODUCE SOIL CONDITIONERS FROM PEANUT HUSK. *Egypt. J. of Appl. Sci.*, 35(3), 39-52.
- 35- **Khater M. M. I. and Ehab Elsayed Abdelrehim (2020):** DEVELOPMENT AND EVALUATION OF CARBONIZER FOR COAL ASH PRODUCTION FROM RICE STRAW. *Egypt. J. of Appl. Sci.*, 35(3), 53-65.
- 36- M. Abdalla1, M. Abd El-Wahab, M. Tawfik and **I. Khater (2021).** APPLICATION OF HYDROLOGICAL MODELS IN A SMALL AGRICULTURAL CATCHMENT FOR WATER MANAGEMENT: CASE STUDY ON WADI EL-RAML WATERSHED-NORTH WESTERN COAST OF EGYPT. *Plant Archives Vol. 21, No. 2, 2021 pp. 154-163.*
- 37- Mohamed. A, Mohamed W., Mohamed T. and **Islam K (2022).** HYDROLOGICAL MODELS SIMULATION IN AGRICULTURAL WATERSHED OF WADI KHAROUBA IN NORTH-WESTERN COAST REGION – EGYPT. *Fresenius Environmental Bulletin. Vol. 31– No. 01A/2022 pp. 1063-1078.*

38- **Islam M. M. Khater** and Omar Ghaly (2023). The needs and challenges for water footprinting in arid regions. J. Plant Sci., Phytopathol.; 7: 8-10. <https://www.heighpubs.org/jpsp/jpsp-aid1097.php>

39- **Islam M. M. Khater**, Mona M. A. Saad & Khaoula Abrougui (2023). Carbon footprint estimation for tillage operations. J.of Oasis Agriculture and Sustainable Development Vol. 5 No. 4, pp 9- 11. <http://www.joasdjournal.org/index.php/joasd/article/view/132/168>. DOI: <https://doi.org/10.56027/JOASD192023>

40- **Islam M. M. Khater**, Mona M. A. Saad, Khaoula Abrougui and Tamer H. Khalifa. Thermal Performance and Evaluation of Solar Cooker with Photovoltaic System. (Under Publishing)

Membership:

- 1- African Conservation Tillage Network(Zambia)
- 2-Scientific Society for Rural Protection Environment (Egypt)
- 3-Egyptian Society for Agricultural Engineering
- 4-WOCAT assoc. of soil &water conservation (Netherland)
- 5-International erosion control association (USA)

Language:

- 1-English. TOEFL from American Univ. in Cairo (581).
- 2-Deutsch Sprache.Grand Stufe Ein.Zagazig Univ.

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