



## FACULTY OF AGRICULTURE

Zagazig University, Zagazig, Egypt.

**Tel:** +2 055 323560

**Fax:** +2 055 347567

**Postal code:** 44511

**E-mail:** info@zu.edu.eg

**Home page:** http://www.zu.edu.eg

### Curriculum Vitae

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              |               |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------|
| Name:                        | Abd-Elrahman Mohamed Amin Ali Merwad                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |               |
| Telephone:                   | 0552554492                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Mobile:                      | 0201019203521 |
| E- mail:                     | <a href="mailto:amerwad@yahoo.com">amerwad@yahoo.com</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |               |
| Web page:                    | <a href="https://scholar.google.com/citations?user=EF1oMzoAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=EF1oMzoAAAAJ&amp;hl=en</a><br>h index (Google scholar and scopus ): 15<br><a href="https://www.scopus.com/authid/detail.uri?authorId=36651279200">https://www.scopus.com/authid/detail.uri?authorId=36651279200</a><br><u>موجود ضمن قائمة ستانفورد الامريكية لافضل ٢ % من علماء العالم الاكثر</u><br><u>استشهادا اكاديميا في الزراعة لعام ٢٠٢٣</u>                                                                                                                                                                             |                              |               |
| Nationality:                 | Egyptian                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Passport number<br>A37002030 |               |
| Date of birth:               | October 13, 1984.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              |               |
| Occupation or Position held: | <ul style="list-style-type: none"><li>• Professor Dr. of Soil Science ,Faculty of Agriculture from 26/3/2024 till now</li><li>• Associate Professor of Soil Science ,Faculty of Agriculture from 25/2/2019 till now</li><li>• Lecture in Faculty of Agriculture , Department of Soil Science ,Zagazig University, Egypt. from 28/1/2014 to 24 /2/2019</li><li>• Assistant lecture in Faculty of Agriculture , Department of Soil Science , Zagazig University, Egypt. from 24/10/2009 to 27/1/2014</li><li>▪ Demonstrator in Faculty of Agriculture , Department of Soil Science , Zagazig University, Egypt from 4/10/2005 to 23/10/2009</li></ul> |                              |               |
| Academic Qualification:      | <b>Philosophy Doctor</b> in soils and water, Faculty of Agriculture, Zagazig University–Zagazig, Egypt 2014 entitled" <b>EFFICIENCY OF PHOSPHATE FERTILIZERS AS INFLUENCED BY SOIL AMENDMENTS APPLICATION IN SOILS</b> "<br><b>Master of science</b> in soils and water, Faculty of Agriculture, Zagazig University. 2009 entitled " <b>Effect of some soil amendments on the behaviour of Some nutrients in different soils</b> " with final grade (Excellent)"<br><b>B.Sc.</b> Agriculture Science of Soil Science, Faculty of Agriculture, Zagazig University June, 2005.                                                                        |                              |               |
| General Calcification:       | Excellent with the honor degree(88.78%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |               |
| Teaching Experience          | Assist undergraduate teaching courses such as:<br><ol style="list-style-type: none"><li>1. Geology and groundwater</li><li>2. Soil chemistry</li><li>3. Soil fertility</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |               |



**جامعة الزقازيق**  
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FOUNDED IN 1974



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|--------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
|                                                  |                 | <div>4. Plant nutrition</div> <div>5. Fertilization, fertilizers and fertility</div> <div>6. The relationship among soil, water and plant</div> <div>7. Chemistry and fertilizers manufacturing</div> <div>8. Soil plant relationship</div> <div>9. Organic agriculture</div> <div>10. Environmental soil chemistry</div> <div>11. Physics and meteorology</div> <div>12. General geology</div> <div>13. Soil mineralogy (Minerals and Rocks)</div> <div>14. Fundamentals soils.</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |
| Name and address of employer:                    |                 | Department of Soil Science, Faculty of Agriculture Zagazig University, Egypt.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |
| Type of business or sector:                      |                 | <div><div><div>• Academic (Teaching and research).</div><div>• Member of the Scientific Advisory Council of the Egyptian Society for Sustainable Agriculture</div><div>• Member of Scientific Advisory Council of Farmers Union</div><div>• Member of Scientific Advisory Council of Cairo festival City under the Protocol of Cooperation between the Faculty of Agriculture, Zagazig University and Cairo festival, Egypt, 2016-2020.</div></div><div>.</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |
| Principal subjects / occupational skills covered |                 | <div><div><div>• Agriculture in general for 2 years (Physics and Meterorlog ,Plant Physiology, Fundamentals of Soil, Fundamentals of Crops, Fundamentals of Horticulture , Botany, Entomology, Agronomy, Horticulture, economics, Microbiology, Plant Production, Statistics, genetics, biochemistry, organic chemistry.....etc).</div><div>• Soil Science for the other 2 years (Soil chemistry, Soil physics, Soil mineralogy, Soil fertility, Geology and groundwater, Soil reclamation, Plant nutrition, The relationship among soil, water and plant, Soil survey and classification, Meteorology and remote sensing, Applied maths and fertilizers manufacturing chemistry ...etc).</div><div>• <b>Pre–Master courses (2005 -2008)</b><i>Chemistry of soil organic matter, Soil chemical analysis, Plant nutrition (Advanced), Soil Plant Relationship,Geohydrology, Soils of Egypt,Reactions of Fertilizers in Soils, Soil Testing, Fertilizer Minerals ,Technology of Inorganic Fertilizers, Soil Geophysies.</i></div><div>• <b>Ph.D courseses (2009 -2012).</b> (<i>Organic Fertilizers , Advanced soil fertility, soil management, fertilizers' treatments, advanced soil microbiology , chemistry and fertilizers manufacturing</i>)</div></div></div> |                            |
| Language Skills                                  | Mother tongue:  | Arabic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |
|                                                  | Other languages | English<br><i>Institutional TOEFL</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Self-assessment:           |
|                                                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <i>Writing</i> Excellent   |
|                                                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <i>Speaking</i> Very good  |
|                                                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <i>Listening</i> Very good |
| Computer skills and competences:                 |                 | <div><div>1. Intensive course of computer for 3 months involved:</div><div><div>• Managing Files (Windows).</div><div>• Word Processing (Word).</div><div>• Spread Sheets (Excel).</div><div>• Data Base (Access).</div><div>• Presentations (Power Point).</div><div>• Information Communication (Internet).</div><div>• Microsoft Digital Literacy Training</div></div><div>2. Data Analysis Programs: SPSS and M. state.</div><div>3. GIS (Geographic Information System )</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |



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### Training courses:

1. Course of computer for 3 months (Administration of training demonstrators).
2. Course in " **Effective Communication Skills** " (Faculty and leadership development project {FLDP} - Zagazig University).
3. Course in "**Effective Presentation Skills**" (Faculty and leadership development project {FLDP} - Zagazig University).
4. Course in "**Quality Standards in Teaching**" (Faculty and leadership development project {FLDP} - Zagazig University).
5. Course in "**Scientific Research Ethics**" (Faculty and leadership development project {FLDP} - Zagazig University).
6. Course in " **Scientific Research Methods** " (Faculty and leadership development project {FLDP} - Zagazig University).
7. Course in "**Using Technology in Education**" (Faculty and leadership development project {FLDP} - Zagazig University).
8. Course in "**International Publishing of Research**" (Faculty and leadership development project {FLDCP} - Zagazig University).
9. Course in "**University Staff Members Code of Ethics**" (Faculty and leadership development project {FLDP} - Zagazig University).
10. Course in "**Conference Organization**" (Faculty and leadership development project {FLDP} - Zagazig University).
11. Course in " **Effective Teaching** " (Faculty and leadership development project {FLDP} - Zagazig University).
12. Course in " **Thinking Skills** " (Faculty and leadership development project {FLDP} - Zagazig University).
13. Course in " **Strategic Planning**" (Faculty and leadership development project {FLDP} - Zagazig University).
14. Course in **Self-Evaluation for Higher Educational Institutes 20-22 December 2014** {The National Authority for Quality Assurance and Accreditation of Education} (NAQAEE)
15. Course in "**Educational Programs and Courses Specifications and Evaluation of Learning Outcomes**" 17-19 February 2015 {The National Authority for Quality Assurance and Accreditation of Education}.
16. Course in "**Strategic Planning for Higher Educational Institutes**" 4-5 April 2015. The National Authority for Quality Assurance and Accreditation of Education}.
17. Course in **External Review for Higher Educational Institutes 28 -30 March 2015**. {The National Authority for Quality Assurance and Accreditation of Education}.

### Conferences and workshops

- Workshop about " **Geographic Information System** "- faculty of Agriculture- Zagazig University (2009), by Dr/Salah Tahon .
- 10<sup>th</sup> International Conference of *Egyptian Soil Science Society (ESSS)*, 4<sup>th</sup> International Conference On –Farm Irrigation and Agroclimatology 5-8 November 2012, Ameria ,Alexandria,Egypt.
- 11<sup>th</sup> International Conference of *Egyptian Soil Science Society (ESSS)* about *Climste Changes and Sustainable Development of Natural Resources*, 5-7 May 2014, Kafr El-Sheikh ,Egypt.
- 1<sup>st</sup> International Conference about the prospects of Agriculture Economics Development in Arab Region & Africa .22-24 April 2013.Suez Canal Uni. Ismailia , Egypt .
- Workshop about "**Maximize the utilization of the Moringa tree in Egypt**" 27 Feb, 2013, *Egyptian Moringa Society*.
- Third Scientific Conferenc of Young Rresearchers, faculty of Agriculture- Zagazig University,29/4/2013.



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- The First International Conference "**Food and Agriculture : New Approaches**" **December 2-4 , 2013. National Research Centre Cairo, Egypt.**
- **The First Conference about International Day of Soils ,15-16 December/2014, Faculty of Agriculture , Department of Soil Science ,Zagazig University, Egypt.**
- International Conference "Agriculture and Environment for Sustainable Development" National Research Centre Agricultural and Biological Research Centre,Cairo, Egypt. May, 25-27, 2015.
- **Work shop about** Assessment Soils and Water in sinai and Suis Canal corridor in" Expansion in cultivating nut trees in sinai and Suis Canal corridor" National Research Centre,Cairo, Egypt.14/6/,2015.
- 12<sup>th</sup> International Conference of *Egyptian Soil Science Society (ESSS)* about "**Development of Water and Soil Resources: Challenges and Solutions**" **7-9 March 2016, Ismailia, Egypt.**
- 1<sup>st</sup> International Conference on Advances in Soil Sciences (ICASS), 2-5 May, 2016, Alexandria, Egypt.
- 1<sup>st</sup> International Conference on "**Security of the Egyptian Soils**" 10-11 April, 2016.
- Role of Executive Supervision in Achieving Distinguished Training Program at 16 March, 2017. Faculty and leadership development project {FLDP} – Zagazig University
- **International Conference on Advanced Technologies and their applications in Agriculture 27 to 29, March, 2017. National Research Centre, Cairo, Egypt.**
- Training workshop on **How to Write a Patent? Products Development.** 15- 16<sup>th</sup> June, 2015.
- Workshop on **GIS for Agriculture & Environment.** National Research Centre,Cairo, Egypt. August 15, 2016.
- Symposium on **Nanotechnology and Certain Application in Agriculture.** National Research Centre,Cairo, Egypt. July 24, 2016.
- International Workshop "**Climate Change and Combat Desertification for Agriculture Production in Egypt and China**" National Research Centre, Cairo, Egypt. April 22,2017
- Workshop on **Nanotechnology Applications.** Agriculture Faculty –Cairo University. 10 -11 October 2017.
- Work shop about "**Better Agriculture Management for Better Life**". Faculty of Agriculture- Zagazig University. March, 7, 2018.
- Workshop on Water –Energy-Food-NEXUS in MENA Region, November. 11-17, 2018 - Aswan, Egypt

### Membership:

- *Zagzig Journal of Agricultural Research, Egypt.*
- *Egyptian Soil Science Society (ESSS).*
- *Egyptian Moringa Society .*
- *Organic Farming Society,National Research Center ,Dokki ,Egypt*
- *Egyptian Association For Sustainable Agriculture*
- Editorial Board Member of *Journal of Agricultural Science* (ISSN 1916-9752, E-ISSN 1916-9760). Canada
- Reviewer in *Journal of Agricultural Stud*
- Reviewer in journal of *Archives of Agronomy and Soil Scien*
- Reviewer in **International Journal of Plant & Soil Science**
- Reviewer in *African Journal of Agricultural Research*
- Assistant Editor in lawarencepress, A2/54 B, Lawrence Road,Delhi-35, India, <http://lawarencepress.com/member-listing/>
- Reviewer in *Journal Plant Nutrition*
- **Member in Measurement and Assessment Unit** Faculty of Agriculture, Zagazig University, Egypt
- **Member in Training and Quality Unit**, Faculty of Agriculture, Zagazig University, Egypt



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### Projects

- Member in project entitled: " **Sustainable Development of Port Said City, Egypt.**"
- Member in project "**Expansion in cultivating nut trees in sinai and Suis Canal corridor, Egypt**" 2015-2019.
- Member in project "**Integrated Environmental Studies to the Problem of Increasing Salinity in the Soil and Groundwater in El-Sharkia, Governorate, Egypt.(2014-2016)**"
- Member in project "**Decentralized treatment wetlands for sustainable water management in rural and remote areas of semi-arid regions.** Berlin, Germany and Egypt, 2019.

### Publications:

1. Abdel-Fattah, M.K , S. K. Abd-Elmabod , Z. Zhang and **Abdel-Rhman M. A. Merwad(2023)**. Exploring the Applicability of Regression Models and Artificial Neural Networks for Calculating Reference Evapotranspiration in Arid Regions. *Sustainability* , 15(22), 15936
2. Li, Y.; A. I. Abdo; Z. Shi;; **A. M. Merwad** and J. Zhang (2023). Biochar derived from invasive plants improved the pH, macronutrient availability and biological properties better than liming for acid rain-affected soil. *Biochar*, 5 (59): 1-16.
3. Manal A. Alnaimy ; A. S. Elrys ; M. Zelenakova ; K. Pietrucha-Urbanik and **A. M. Merwad (2023)**. The Vital Roles of Parent Material in Driving Soil Substrates and Heavy Metals Availability in Arid Alkaline Regions: A Case Study from Egypt. *Water*, 15, 2481
4. Shima, R. Hamed ;Rasha S. Abdel-Hak ;Mohamed M.S. Saleh and **Abdel-Rahman M.A. Merwad (2023)**. Impact of active fresh yeast enriched with zinc on yield and fruit quality of Flame Seedless grapes. *Egypt. J. Chem.* 66 (2): 435 – 448.
5. Yi Cheng; Ahmed, S. Elrys, **Abdel-Rahman M. Merwad**; Huimin Zhang, Z. Chen; J. Zhang; Z. Cai and C. Müller(2022). Global Patterns and Drivers of Soil Dissimilatory Nitrate Reduction to Ammonium. *Environmental Science & Technology*
6. Abdelsatar M.A.E. Eltahawy , E.A.M. Awad1 , I.R. Mohamed1 , A.H. Ibrahim1 , E.M. Desoky and **A.M. Merwad (2022)**. ROLE OF Moringa oleifera SEEDS EXTRACT IN ELIMINATING SOIL AND WATER CONTAMINATION USING LETTUCE PLANTS AS INDICATOR. *Zagazig J. Agric. Res.*, 49, (6):801-814.
7. Eltahawy, M. A. E. ; Awad, EAM ; Ibrahim, A.H. ; **Merwad, A.M.A** and Desoky, E.M. (2022). Integrative application of heavy metal-resistant bacteria, moringa extracts, and nano-silicon improves spinach yield and declines its contaminant contents on a heavy metal-contaminated soil. *Frontiers in Plant Science*. 13:1019014. doi: 10.3389/fpls.2022.1019014
8. Mohammed AE Naiel, Ahmed GA Gewida, **Abdel-Rahman MA Merwad**, Eman AA Abdel-Hamid, Samar S Negm, Mahmoud Alagawany, Mayada R





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- Farag(2022). The effects of various organic fertilizers with or without adsorbents on the productivity, antioxidant status and immune responses of Nile tilapia raised in cement ponds. *Aquaculture*, 548, 737593. <https://doi.org/10.1016/j.aquaculture.2021.737593>.
9. Osman,A.; [Abdel-Rahaman M. Merwad](#), Azza H Mohamed, Mahmoud Sitohy(2021). Foliar Spray with Pepsin-and Papain-Whey Protein Hydrolysates Promotes the Productivity of Pea Plants Cultivated in Clay Loam Soil. *Biomolecules*, 26(9):2805. <https://doi.org/10.3390/molecules26092805>
  10. Osman, A.; Tharwat A. Imbabi, Abdalla El-Hadary, Islam Ibrahim Sabeq, Shimaa N Edris, [Abdel-Rahaman M.A. Merwad](#), Ehab Azab, Adil A Gobouri, Amaal Mohammadein, Mahmoud Sitohy(2021). Health Aspects, Growth Performance, and Meat Quality of Rabbits Receiving Diets Supplemented with Lettuce Fertilized with Whey Protein Hydrolysate Substituting Nitrate. *Biomolecules*,11(6):835.
  11. Desoky,E.M.; A. M. Saad; M.T. El-Saadony; [A. M. Merwad](#) and Mostafa M Rady(2020). Plant growth-promoting rhizobacteria: Potential improvement in antioxidant defense system and suppression of oxidative stress for alleviating salinity stress in *Triticum aestivum* (L.) plants. *Biocatalysis and Agricultural Biotechnology*.30,101878 <https://doi.org/10.1016/j.bcab.2020.101878>
  12. Desoky, E.M.; [A.M. Merwad](#), Mohamed F. Abo El-Maati, E.Mansour, Safaa M.AI Arnaout, M.F. Awad, M. F. Ramadan, Seham A. Ibrahim(2021). Physiological and biochemical mechanisms of exogenously applied selenium for alleviating destructive impacts induced by salinity stress in bread wheat. *Agronomy*,11 (5):926. <https://doi.org/10.3390/agronomy11050926>.
  13. Mansour,E.; E.S.A. Moustafa, M.I.E. Abdul-Hamid, Salwa M.A.I. Ash-shormillesy, [A.M.A. Merwad](#), H. A. Wafa and Ernesto Igartua (2021). Field responses of barley genotypes across a salinity gradient in an arid Mediterranean environment. *Agricultural Water Management*.258, 107206. <https://doi.org/10.1016/j.agwat.2021.107206>
  14. Abdo, A.I. , Duopeng Shi; Jie Li; T.Yang, X. Wang; Huitong Li, E.M.W. Abdel-Hamed, [A.M. Merwad](#) and L. Wang (2021): Ammonia emission from staple crops in China as response to mitigation strategies and agronomic conditions: Meta-analytic study. *J. Cleaner Production*.279. 123835
  15. El Hossen G. Abd-Elmaksod; Salah A. Tahoun, Mahmoud N. Khalil; Mohsen M. Yousry and [Abdel-Rahaman M.A. Merwad](#) (2021). Effect of some soil amendments on yield and nutrient uptake by maize plants grown on sandy soils. *Zagazig J. Agric. Res.*, 48(3:703-717.
  16. Desoky. E.A.; [A. M .Merwad](#) ; W.M. Semida; S. A.Ibrahim; M. T.El-Saadony and M.M.Rady. 2020. Heavy metals-resistant bacteria (HM-RB): Potential bioremediators of heavy metals-stressed *Spinacia oleracea* plant. *Ecotoxicology and Environmental Safety*. 198. <https://doi.org/10.1016/j.ecoenv.2020.110685>
  17. [Merwad, A.M. \(2020\)](#). Mitigation of salinity stress effects on growth, yield and nutrient uptake of wheat by application of organic extracts. , *Communications in Soil Science and Plant Analysis*. <https://doi.org/10.1080/00103624.2020.1751188>.
  18. Desoky. E.A.; [A. M .Merwad](#) ; W.M. Semida; S. A.Ibrahim; M. T.El-Saadony and M.M.Rady. 2020. Heavy metals-resistant bacteria (HM-RB): Potential bioremediators of heavy metals-stressed *Spinacia oleracea* plant. *Ecotoxicology and Environmental Safety*. 198. <https://doi.org/10.1016/j.ecoenv.2020.110685>
  19. Desoky, E.M.; A.I. ElSayed; [Merwad ,A.M](#) and M.M. Rady (2019). Stimulating antioxidant defenses, antioxidant gene expression, and salt tolerance in *Pisum sativum* seedling by pretreatment using licorice root extract (LRE) as an organic biostimulant. *Plant Physiology and Biochemistry*. 142 , 292–302.
  20. El-Sayed M. Desoky,E.M.; Seham A. I. and [A. M. Merwad](#) (2019): Mitigation of salinity stress



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- effects on growth, physio-chemical parameters and yield of snapbean (*Phaseolus vulgaris* L.) by exogenous application of glycine betaine. International Letters of Natural Sciences. 76, 60-71.
21. Desoky, E.M. ; Seham, A. Ibrahim and **A.M. Merwad (2019)**. Humus materials and Moringa (*Moringa oleifera* Lam.) Leaf Extract Modulate the Harmful Effect of Soil Salinity Stress in Sudan Grass (*Sorghum vulgare* L.). Egyptian j. of agronomy. 41(1):29-45.
  22. El-Nahas, B. H. A.; S. M.M. Dahdouh; M. S.D. Abu-hashim and **A.M. Merwad (2019)**. Effect of potassium sources and soil amendments with silicate dissolving bacteria on availability of potassium in alluvial soil cultivated with wheat plants. Zagazig J. Agric. Res., Soil Science and Agricultural Engineering., 46(4) : 1089-1102
  23. Amara, M. Sabri, I. R. Mohamed, A. E. Nasrallah and **A.M. Merwad (2019)**. Response of wheat plants to different organic extracts under sandy soil conditions. **Zagazig J. Agric. Res., Soil Science and Agricultural Engineering.**, 46(5):1441-1451.
  24. **Merwad, A.M. A. (2018)**. Response of yield and nutrients uptake of pea plants to silicate under sandy soil conditions. Communications in Soil Science and Plant Analysis. 49 (13):1553-1562  
**Merwad A.M. A.** and M.M.N. Khalil (2018). Effect of moringa residues on nutrients availability and wheat production in sandy and calcareous soils. Soil Sci. and Agric. Eng., Mansoura Univ., 9(1): 55- 62.
  25. **Merwad, M. A.** ; E. M. Desoky and M.M. Rady (2018). Response of water deficit-stressed *Vigna unguiculata* performances to silicon, proline or methionine foliar application. Scientia Horticultirae.228.132-144.
  26. Galal, D.A.M., E.A.M. Awad, A.S. Metwally and **A.M.A. Merwad (2017)**. Effect of perlite and moisture content on the availability and movement of phosphorus in calcareous soil cultivated with sudan garss plants. Zagazig J. Agric. Res. Soil and Water Science. 44(6):
  27. **Merwad, A. M. (2017)**. Effect of humic and fulvic substances and Moringa leaf extract on Sudan grass plants grown under saline conditions. Canadian Journal of Soil Science. 97(4): 703-716.
  28. Mansour, E.; **A . M. A. Merwad** ; M. A. T. Yasin; M. I. E. Abul-Hamid ;E.E.A.EL-Sobky and H. F. Oraby (2017): Nitrogen use efficiency in spring wheat: genotypic variation and grain yield response under sandy soils condition. The Journal of Agricultural Science,155,1407-1423
  29. **Merwad, A.M. A.** and M. K. Abdel-Fattah (2017). Improving productivity and nutrient uptake of wheat plants using *Moringa Oleifera* leaf extract in sandy soil. Journal of Plant Nutrition, 40 (10):1397-1403.
  30. Abdel-Fattah, M.K. and **A.M.A. Merwad (2016)**. Approach for reclamation and improving fertility of saline-sodic soil. Egypt. J. Soil Sci. 56(4):573-588.
  31. **Merwad, A.M.A. (2016)**. Efficiency of K- sulphate and K-feldspar combined with silicate dissolving bacteria on yield and nutrient uptake by maize plants. Egypt. J. Soil Sci. 56 (2): 249- 259
  32. Desoky, S.M. .and **A.M. Merwad (2015)**. Improving the Salinity Tolerance in Wheat Plants Using Salicylic and Ascorbic Acids. Journal of Agricultural Science, 7(10):203 -217.
  33. Abdel-Fattah,M.K and **A. M.A. Merwad (2015)**. Effect of Different Sources of Nitrogen Fertilizers Combined with Vermiculite on Productivity of Wheat and



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### Ref:

- Availability of Nitrogen in Sandy Soil in Egypt. Am. J. Plant Nutr. Fert. Technol, 5(2):50-60
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- **Prof Dr. Mohamed K Abdel-Fattah** , Professor Dr. of Soil Science ,Faculty of Agriculture, Zagazig University, Egypt ; Tel: 01022338103
- **Prof Dr. Mohamed S.D. Abu-hashim**; Professor Dr. of Soil Science ,Faculty of Agriculture ,Zagazig University, Egypt ; Tel: 01000395616
- **Prof Dr. El-Sayed M. Desoky** ; Professor Dr. of Agriculture Botany, Faculty of Agriculture Zagazig University, Egypt; Tel: 01004109568

### Scientific supervision

- الإشراف على العديد من الرسائل العلمية لطلبة الدراسات العليا المسجلين في قسم علوم الأراضي**
- دعاء أشرف محمد جلال (ماجستير أراضي)
  - باسم هداية عبدالعزيز النحاس (ماجستير أراضي)
  - الحسين جابر عبدالمقصود (دكتوراة أراضي)
  - أميرة محمد صبرى محمود (ماجستير أراضي)
  - شيماء علون محمد علون (دكتوراة أراضي)
  - أحمد عادل (ماجستير أراضي)
  - نهى أحمد عويس جاد المولى (ماجستير بساتين خضر) تحت عنوان **إستجابة نمو وإنتاجية وجودة ثمار الطماطم لبعض طرق الري الحديث والمقتنات المائية المختلفة تحت ظروف الأراضي الصحراوية**
  - عبدالستار منصور الطحاوى (دكتوراة أراضي) **المعالجة الكيميائية والحيوية للأراضي والمياه الملوثة**

### المشاركة في خدمة المجتمع وتنمية البيئة

- المشاركة في قافلة ارشادية بجامعة الزقازيق من البرنامج الرئاسي **لحياة كريمة** بمحاضرة بعنوان (خدمة الاراضى الملحية وتغذية المحاصيل الشتوية) بتاريخ ٩ ابريل ٢٠٢٢م بقرية **الزميتى** - مركز **الحسينية الشرقية**
- المشاركة في قافلة ارشادية بجامعة الزقازيق ضمن فاعليات مهرجان البيئة الثامن عشر والبرنامج الرئاسي **حياه كريمة** بمحاضرة بعنوان (خدمة الاراضى وتغذية المحاصيل وتدوير المخلفات الزراعية ) بتاريخ ٢٢ مارس ٢٠٢١م بقرية **الدهنون** - مركز **ابوكبير الشرقية**
- المشاركة في قافلة ارشادية بجامعة الزقازيق من **البرنامج الرئاسي لحياة كريمة** بمحاضرة بعنوان (خدمة الاراضى وتغذية المحاصيل وتدوير المخلفات الزراعية ) بتاريخ ٢٢ مارس ٢٠٢١م بقرية **الظواهرية** - مركز **الحسينية الشرقية**
- المشاركة في قافلة ارشادية بجامعة الزقازيق من **البرنامج الرئاسي لحياة كريمة** بمحاضرة بعنوان (خدمة الاراضى وتغذية المحاصيل تحت الاجهاد الملحي ) بتاريخ ٢٣ سبتمبر ٢٠٢١م بقرية **الدبيكى** - مركز **الحسينية الشرقية**
- حضور اجتماع بجامعة الزقازيق كعضو اللجنة العلمية والفنية لتدوير المخلفات بمحافظة الشرقية بتاريخ ٩ مارس ٢٠٢١م
- زيارة ميدانية **لارض الغدان بمركز منيا القمح** ضمن اللجنة العلمية والفنية بجامعة الزقازيق لمشروع **تدوير المخلفات بمحافظة الشرقية** بتاريخ ٢٤ مارس ٢٠٢١م
- لقاء دورة تدريبية بعنوان ( **التقنيات الحديثة في الزراعة العضوية**) بمديرية الزراعة بالشرقية بتاريخ ٩ - ١٠ ديسمبر ٢٠١٩م ضمن البرتوكول بين مديرية الزراعة وجامعة الزقازيق
- اللقاء محاضر بعنوان ( **المحاصيل الصيفية وتدوير المخلفات الزراعية**) بمديرية الزراعة بتاريخ ٢٧ اكتوبر ٢٠١٩م
- لقاء محاضرة وتدريب عملى لطلاب مدرسة الجلاء الابتدائية بهيما الشرقية في مبادرة ( **ارزح شجرة تساوى حياة**) بتاريخ ٧ ديسمبر ٢٠٢١م
- زراعة وتشجير **فناء وحدة الزرزمون البيطرية ههيا** باشجار فاكهة ونباتات خضر بتاريخ الاربعاء ٢٣ فبراير ٢٠٢١م





## FACULTY OF AGRICULTURE

Zagazig University, Zagazig, Egypt.

Tel: +2 055 323560

Fax: +2 055 347567

Postal code: 44511

E-mail: info@zu.edu.eg

Home page: http://www.zu.edu.eg

### اعمال الجودة

- عضو فريق الجودة بقسم الاراضى والمياه بالكلية
- المشاركة فى توصيف البرامج و المقررات الدراسية بالكلية
- منسق الدراسات العليا لبرنامج الاراضى والمياه بالكلية
- المنسق الاعلامى لبرنامج قسم الاراضى والمياه ٢٠٢٢-٢٠٢١
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- منسق التعليم الالكترونى لبرنامج الاراضى والمياه ٢٠٢٢-٢٠٢٠م
- عضو اللجنة العلمية والفنية بجامعة الزقازيق لمشروع تدوير المخلفات بمحافظة الشرقية من ٢٠٢١ حتى الان
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- عضو كنترول التصحيح الالكترونى بالكلية ٢٠١٨/٢٠١٧
- المشاركة فى الدراسة الذاتية للكلية
- مشرف تنفيذى بمركز قدرات اعضاء هيئة التدريس والقيادات بجامعة الزقازيق
- عضو لجنة تنمية البيئة وخدمة المجتمع بكلية الزراعة جامعة الزقازيق ٢٠١٧-٢٠١٦
- عضو وحدة القياس والتقويم بالكلية والتصحيح الالكترونى 2016 حتى الان

### المجلات والجمعيات العلمية والخبرات

|                             |                                                                                                                                                                               |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| عضو                         | الجمعية المصرية لعلوم الاراضى (المركز القومى للبحوث بالدقى - القاهرة)                                                                                                         |
| عضو                         | الجمعية العلمية المصرية للمورينجا (المركز القومى للبحوث بالدقى - القاهرة)                                                                                                     |
| عضو ومستشار علمى            | الجمعية العلمية للتنمية المستدامة                                                                                                                                             |
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| مستشار علمى                 | عضو اللجنة العلمية الاستشارية بنقابة الفلاحين بمحافظة الشرقية كلية الزراعة -جامعة<br>الزقازيق من ٢٠١٧ حتى الان                                                                |
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## FACULTY OF AGRICULTURE

Zagazig University, Zagazig, Egypt.

**Tel:** +2 055 323560

**Fax:** +2 055 347567

**Postal code:** 44511

**E-mail:** info@zu.edu.eg

**Home page:** <http://www.zu.edu.eg>

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