

Curriculum Vitae



Assoc.Prof.Dr. Esam Ismail

Personal Data:

Name: Esam Abu El-Sebaa Osman Ismail
Date & Place of Birth: 28/11/1979, Mallawi, El-Minia, Egypt
Nationality: Egyptian
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Educations:

- 1- Primary School, Nazlet Hamzawi Primary School, Mallawi, El-Minia, Egypt (1985-1990)
- 2- Prep School, Nazlet Hamzawi Prep School, Mallawi, El-Minia, Egypt, (1990 – 1993)
- 3- High School, El-Roda High School, Mallawi, El-Minia, Egypt, (1993 – 1996)
- 4- B.Sc. (Geology, Very Good) Faculty of Science, Minia University, Egypt (1996-2000)
- 5- M.Sc. (Geology) Faculty of Science, Minia University, El Minia, Egypt (2001- 2006)
- 6- Ph.D. (Geology) Department of Applied Geosciences and Geophysics, Montanuniversität Leoben, Leoben, Austria (2009-2013)

Appointments:

1. Teaching Assistant, Geology Department, Faculty of Science, Minia University, El-Minia, Egypt (2000-2006).
2. Assistant Lecturer, Geology Department, Faculty of Science, Minia University, El-Minia Egypt (2006-2009).
3. Ph.D. Student, Department of applied Geosciences and Geophysics, Montanuniversität Leoben, Austria (2009- 2013)
4. Assistant Professor, Geology Department, Faculty of Science, Minia University, El-Minia, Egypt (2013 – 2017)
5. Postdoc researcher, Faculty of Civil Engineering, Ostrava University, Ostrava, Czech Republic (February 2017- June 2017)
6. Assistant Professor, Geology Department, Faculty of Science, Minia University, El-Minia, Egypt (2017- 2019)
7. Associated Professor, Geology Department, Faculty of Science, Minia University, El-Minia, Egypt from May 2019
8. Postdoc researcher, Department Applied Geosciences and Geophysics, Geophysical Institute, Montan University Leoben, Austria (Jun 2021- November 2021)

Teaching Activity:

The following courses have been taught to the under-graduate students:-

- A- Faculty of Science, Minia University, Egypt;** (Hydrogeology, Hydrogeochemistry, Remote sensing, General Geology, Geologic map and map reading, General Geophysics, Photogeology and Environmental geology).
- B- Faculty of Education, Minia University, Egypt;** (General Geology, Geologic map and map reading, Hydrogeology, General Geophysics, Environmental geology).

Software

Microsoft Office, GIS, Surfer, Canvas, GWW, AquaChem

Research Interest:

I am interesting in different branches of Geo-Science. I have long been interested in Water resources, Hydrology and Geophysics since I was in my undergraduate studied. I extend this knowledge further during my M.Sc. work and I did a master degree in hydrogeophysical and hydrogeochemical evaluation of the groundwater resources in the area east of El-Minia District, Egypt. In my Ph.D. work, I am concentrating more on the use of hydrogeology, Hydrogeochemistry, geophysics, and remote sensing in evaluation the groundwater. My Ph.D. Titled with “Environmental Investigations in the West Tahta Region, Upper Egypt: A Hydrogeochemical, Geophysical and Remote Sensing Study”. My research paper is manly related with hydrogeochemistry, hydrogeology and enviromental geology.

Scientific society

- Member of the European Association of Geochemistry (EAG).
- Member of the Geological Society of Egypt (GSE).
- Member of the Austrian Geological Society (Österreichische Geologische Gesellschaft “ÖGG”).
- Member of the Geological Society of American (GSA)
- Member of European Geoscience Union (EGU).
- Member of Society of Exploration Geophysicists (SEG)

Publications:

- 1- Moustafa G.S, Jianhua W., Fengmei S., Ahmed A., **Esam I.**, (2021): Groundwater Quality and Its Regulating Geochemical Processes in Assiut Province, Egypt, Exposure and Health journal, <https://doi.org/10.1007/s12403-021-00445-1>
- 2- Abotalib Z. Abotalib, Essam Heggy, Mohammed El Bastawesy, **Esam Ismail**, Ahmed Gad, Mohamed Attwa (2021): Groundwater mounding: A diagnostic feature for mapping aquifer connectivity in hyper-arid deserts, Science of The Total Environment, V. 801, 149760, <https://doi.org/10.1016/j.scitotenv.2021.149760>.
- 3- **Esam Ismail**, Ahmed Abdelhalim, Mohamed Abou Heleika (2021): Hydrochemical characteristics and quality assessment of groundwater aquifers northwest of Assiut district, Egypt. Journal of African Earth Sciences 181 (2021)104260, <https://doi.org/10.1016/j.jafrearsci.2021.104260>
- 4- Abou Heleika M., Sherif T., **Esam Ismail** (2021): Mapping of Groundwater Opportunities for Multi-purposes Use in Beni-Suef Province, Egypt. Arabian Journal of Geosciences (2021) 14:784. <https://doi.org/10.1007/s12517-021-07123-1>
- 5- Moustafa Gamal Snousy, Peiyue Li & **Esam Ismail** (2021): Trace elements speciation and sources characterization in the main watercourses, middle-upper Egypt, Human and Ecological Risk Assessment: An International Journal, DOI: [10.1080/10807039.2021.1902265](https://doi.org/10.1080/10807039.2021.1902265)
- 6- Mustafa El-Rawy, Mohamed Abdelrahman, **Esam Ismail** (2020): Integrated use of pollution indices and geomatics of assess soil contamination and identify soil pollution source in El-Minia Governorate, Upper Egypt. Journal of Engineering Science and Technology, Vol. 15, No. 4 (2020) 2223 - 2238
- 7- **Esam Ismail**, Rafat Zaki, Nada Rapantova, Monika Licbinska (2020): Hydrogeochemical Characteristics of the Groundwater in the Quaternary Aquifer of Western Fringes of El Minia Governorate, Egypt using an integration of Geochemical Modeling and Geo-statistical Techniques, Desalination and Water Treatment 189 (2020) 134–151, [https://doi: 10.5004/dwt.2020.25465](https://doi.org/10.5004/dwt.2020.25465)
- 8- Ahmed Abdel-Halim, Ahmed Sefelnasr, **Esam Ismail** (2020): Response of the interaction between surface water and groundwater to climate change and proposed megastructure, Journal of African Earth Sciences 162 (2020) 103723, <https://doi.org/10.1016/j.jafrearsci.2019.103723>

- 9- Moustafa Gamal Snousy, **Esam Ismail**, and Rafat Zak (2019): Trace element occurrence and distribution problems in the irrigation water at El-Minia district, north upper Egypt, Arabian Journal of Geosciences (2019) 12:582, <https://doi.org/10.1007/s12517-019-4771-8>
- 10- Mustafa El-Rawya, **Esam Ismail**, and Osman Abdalla(2019): Assessment of Groundwater Quality Using GIS, Hydrogeochemistry, and Factor Statistical Analysis in Qena governorate, Egypt, Desalination and Water Treatment 162 (2019) 14–29, <https://doi: 10.5004/dwt.2019.24423>
- 11- Ahmed Awad Abdelhady, Mahmoud M. Khalil, **Esam Ismail**, Jiawei Fan, Shengrui Zhang, Jule Xiao (2019): Water chemistry and substrate type as major determinants of molluscan feeding habit and life–mode in lagoon sediments, Estuarine, Coastal and Shelf Science 220 (2019) 120–130, <https://doi.org/10.1016/j.ecss.2019.02.019>
- 12- Ahmed Abdel-Halim, Ahmed Sefelnasr, **Esam Ismail** (2019): Numerical Modeling Technique for Groundwater Managemnt in Samalut City, Minia Governorate, Egypt. Arabian Journal of Geosciences, (2019) 12:124, <https://doi.org/10.1007/s12517-019-4230-6>
- 13- Ahmed Awad Abdelhady, Mahmoud M. Khalil, **Esam Ismail**, Ramadan S.A. Mohamed, Ahmed Ali, Moustafa Gamal Snousy, Jiawei Fan, Shengrui Zhang, Liu Yanhong, Jule Xiao, (2019): Potential biodiversity threats associated with the metal pollution in the Nile–Delta ecosystem (Manzala lagoon, Egypt), Ecological Indicators 98 (2019) 844–853, <https://doi.org/10.1016/j.ecolind.2018.12.002>.
- 14- M. Abou Heleika &**E. Ismail** & M. Ahmed (2018): Delineation of Contamination Zone using geophysical and hydrogeochemical methods around El Moheet Drain, El Minia District, Upper Egypt, Arabian Journal of Geosciences, (2018) 11:625, <https://doi.org/10.1007/s12517-018-3927-2>.
- 15- **Esam Ismail**, Mustafa El-Rawy (2018): Assessment of groundwater quality in West Sohag, Egypt, Desalination and Water Treatment journal, Volume 123, Augest, pp 101: 108, <https://doi: 10.5004/dwt.2018.22687>.
- 16- Hassan Safaand **Ismail Esam** (2018): Detection and Evaluation of Groundwater in Siwa Oasis, Egypt using hydrogeochemical and Remote Sensing Data analysis, Water Environment Research, Volume 90, Number 5, 1 May 2018, pp. 465-478(14). <https://doi.org/10.2175/106143017X15131012153004>

- 17- Sultan Awad Sultan Araffa, Mohamed El-bohoty, Abou Heleika M., Mahmoud Mekkawi, **E. Ismail**, Ahmed Khalil, Enas M. Abd EL-Razek (2018): Implementation of magnetic and gravity methods to delineate the subsurface structural features of the basement complex in central Sinai area, Egypt, Journal of Astronomy and Geophysics NRIAG, <https://doi.org/10.1016/j.nrjag.2017.12.002>
- 18- **Esam Ismail**, Esam El-Sayed, Sameh Sakr, and Emad Youssef (2017): Characteristic of groundwater potentialities in West Nile Valley South, Minia Governorate, Egypt, Arabian Journal of Geosciences (2017) 10:521, <https://doi.org/10.1007/s12517-017-3302-8>
- 19- **Esam Ismail**, Rafat Zaki, Ali Kamel (2015): Hydrogeochemistry and Evaluation of Groundwater Suitability for Irrigation and Drinking Purposes in West El-Minia District, North Upper Egypt, Eighteenth International Water Technology Conference, IWTC18 Sharm ElSheikh, 12-14 March 2015.
- 20- Zaki, R., **Ismail, E.A.**, Mohamed, W.S. and Ali, A.K. (2015): Impact of Surface Water and Groundwater Pollutions on Irrigated Soil, El Minia Province, Northern Upper Egypt. Journal of Water Resource and Protection, 7, 1467-1472. <http://dx.doi.org/10.4236/jwarp.2015.717120>
- 21- Wagih S. Mohamed, **Esam A. Ismail**, Rafat Zaki, Ali Kamel (2015): Assessment of Heavy Metals Pollution in Irrigated Soils, West El Minia District, Egypt, Egyptian Journal of Geology, v. 59, 2015, p.101-112
- 22- Monem, M.A., Faïd, A., **Ismail, E.** and Schöniger, M. (2014) Groundwater Management in the Esna City, Upper Egypt: An Application of Remote Sensing and Numerical Modeling. Natural Resources, 5, 732-745. <http://dx.doi.org/10.4236/nr.2014.512063>
- 23- **Ismail Esam**, Faïd Abdalla, Niesner Erich, Mauritsch Hermann (2012): Comparison of the Groundwater Quality in the West Tahta Area, Upper Egypt in 1989 and 2011, Journal of Environmental Protection, 2012, 3, 1442-1457 <http://dx.doi.org/10.4236/jep.2012.311162>
- 24- **Ismail Esam**, Faïd Abdalla, Niesner Erich (2012): Land Use and Land Cover Changes of West Tahta Region, Sohag Governorate, Upper Egypt, Journal of Geographic Information System, 2012, 4, 483-493 <http://dx.doi.org/10.4236/jgis.2012.46053>
- 25- El-Sayed, E., Abou Heleika, M. M., Tantawi, M. and **Abu El-Sebaa, E.** (2006): Delineation of the groundwater aquifers using resistivity method in the eastern bank of the River Nile at El-Minia district, Egypt. 4th international symposium of geophysics Tanta Univ. pp 1-16.

26- Tantawi, M. A.; El Sayed, E.; Setto, I., and **Abu El-Sebaa, E.** (2004): Hydrochemical evaluation of the groundwater resources in the area east of El-Minia District, Egypt. The sixth Conference on Geochemistry (15 – 16 September, 2004), 25p.

Conferences and Workshops Attended:

- The 13th International Geological Conference 03 – 05 March 2020, Jeddah, Saudi Arabia.
- 10TH International Conference on the Geology of Africa (ICGA 2019), Assiut Univesity, 19-21 November 2019, Assiut, Egypt.
- 8th International Conference on Water Resources and Arid Environments(ICWRAE, 2019), Riyadh, Saudi Arabia, 22-24 January 2019
- International Conference on Civil and Environmental Engineering (ICCEE 2018), Hurghada, Egypt, 24-26 November 2018
- XXI International Congress of the Carpathian Balkan Geological Association (CBGA, 2018) University of Salzburg, September 10–13, 2018, Salzburg, Austria.
- ICNHBAS 2017, 3th International Conference on New Horizons in Basic and Applied Science.5 -7 August 2017 in Hurghada, Egypt.
- 3th international conference for environment studies " Hurghada, Egypt from 16th to 18th August 2016.
- Geoanalysis, Leoben 2015, the 9th international conference on the analysis of geological and environmental materials 9-14 August 2015 in Leoben, Austria.
- ICNHBAS 2015, 2nd International Conference on New Horizons in Basic and Applied Science.1 -6 August 2015 in Hurghada, Egypt.
- Eighteenth International Water Technology Conference.12-14 March (2015) in Sharm El Sheikh, Egypt.
- The Annual Meeting of Geological Society of Egypt,Cairo, Egypt, 2014.
- Seventh International Conference on the Geology of Africa (ICGA 2013), Assiut University, Assiut, Egypt 2013.
- Workshop in the use of computer program in Geology, MontanuniversitätLeoben, Leoben, Austria2012

- International Conference on Hydrology & Groundwater Expo. (September 10-12,2012) Hilton San Antonio Airport, USA
- International Conference on Groundwater in Fractured Rocks (21-24 May, 2012) Prague, Czech Republic
- European Geosciences Union Conference, Vienna, Austria, 2012
- Geological Society of America, Annual Meeting in Minneapolis (9-12 October 2011)
- European Geosciences Union Conference, Vienna, Austria, 2011
- Workshop in GIS, Graz University, Austria, 2011
- Workshop in Remote sensing, Alexandria University, Alexandria Governorate, Egypt, 2006
- Workshop in the Atomic Energy Authority of Egypt about the stable and redioactive isotop, Cairo, Egypt, 2005
- “Sixth International Conference on Geochemical” Alexandria University, Alexandria, Egypt,15-16 September, 2004
- Workshop in the use remote sensing in Geology, Assuit University, Assiut, Egypt 2004
- Workshop in the using geophysics methods, Ain Shams University, Cairo, Egypt 2003

References:

- 1- **Prof. Dr. Ahmed Sefelnasr**, Professor of Hydrogeology Geology Department, Assiut University 71516, Assiut, Egypt & Researcher, National Water and Energy Center United Arab Emirates University P.O. BOX 15551 Al Ain, UAE.
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- 2- **Prof. Dr. Esam El Sayed Ali El Sayed**, Professor of Hydrogeology, Geology Department, Faculty of Science, Minia University, El-Minia, Egypt.
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- 3- **Prof. Dr. Nada Rapantova**, Professor of Hydrogeology, Civil Engineering, Technical University of Ostrava, Czech Republic
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- 4- **Prof. Dr. Mauritsch, Hermann**, Professor of Geophysics, Institute of Geophysics, Univeristy of Leoben, 8700 Leoben, Peter-Tunner-Street 25, Austria
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