

Curriculum Vitae

Arabic name	أ.د. أحمد السيد أحمد الريس			الاسم (عربي)
Name (English)	Ahmed El-Sayed Ahmed El-Rayes			الاسم (إنجليزي)
01003974106	الموبايل Mobile No.	ahmed_elrais@science.suez.edu.eg		البريد الإلكتروني E-mail
الجيولوجيا Geology	القسم Department	العلوم Science	الكلية Faculty	قناة السويس Suez Canal University
				الجامعة/المعهد Institute / University
1999		تاريخ الحصول على الدرجة Date of Graduation	PhD, Geology (Hydrogeology)	أعلى درجة علمية Highest Degree (MD, PHD)
Professor		اللقب العلمي Academic Title	Channel system Egypt/USA	الدولة التي حصل على الدرجة منها Country
	جيولوجيا المياه	المجال الدقيق	الجيولوجيا	المجال العام
Hydrogeology		Specialization field	Geology	Major field
Research Interests				الاهتمامات البحثية
<ul style="list-style-type: none"> • Water level rising and soil salinization. • Hydrogeochemistry and Environmental hydrogeology. • Flood control and Water Management. • Natural treatment of drinking water. • Environmental impact assessment for major projects. 				
List of Publications				الأبحاث المنشورة
<ol style="list-style-type: none"> 1- Adel Omran, Kanij Fahmida, Dietrich Schröder, Mohamed O Arnous, Ahmed E El-Rayes, Volker Hochschild (2021): GIS-based rockfall hazard zones modeling along the coastal Gulf of Aqaba Region, Egypt. Earth Science Informatics, 14(2):691-709, DOI:10.1007/s12145-021-00580-y. 2- Hamdy Aboulela, Abeer Amin, Aref Lashin, Ahmed E. El-Rayes (2020): Contribution of geothermal resources to the future of renewable energy in Egypt: A case study, Gulf of Suez-Egypt. <i>Renewable Energy</i>, DOI: 10.1016/j.renene.2020.11.079 3- Azza H. Moubarak, Mohamed O. Arnous, Ahmed E. El-Rayes (2020): Integrated Geoenvironmental and Geotechnical Risk Assessment of East Port Said Region, Egypt for Regional Development. <i>Geotechnical and Geological Engineering</i>, DOI: 10.1007/s10706-020-01571-4 4- Ahmed E. El-Rayes, Adel F. Omran, Mohamed H. Geriesh and Volker Hochschild (2020): Estimation of hydraulic conductivity in fractured crystalline aquifers using remote sensing and field data analyses: An example from Wadi Nasab area, South Sinai, Egypt. <i>Journal of Earth System Science</i>, 129:203, DOI:10.1007/s12040-020-01470-5 5- Mohamed O. Arnous, Ahmed E. El-Rayes, Geriesh M.H, Kamal Ghodeif, Faisal Al-Oshari (2020): Groundwater potentiality mapping of tertiary volcanic aquifer in IBB basin, Yemen by using remote sensing and GIS tools, <i>Journal of Coastal Conservation</i>, 24(3), DOI:10.1007/s11852-020-00744-w 6- El-Rayes, A.E., Arnous, M. O. and Al-Oshari, F. (2020): Integrated groundwater contamination assessment of tertiary volcanic aquifer, IBB, Yemen. Conference: SSG 2020, The 13th International Geological Conference, Jeddah, Saudi Arabia. 				

- 7- **Ahmed E. El-Raves**, Farouk M. El-Fawal, Shams El-Din Shahin, Salma M. Abdel-Nabi (2018): Geochemistry and Quality Assessment of River Nile Water, Northern Part of Damietta Branch, Egypt. *IOSR Journal of Applied Geology and Geophysics*, 6(5):30-43, Doi: 10.9790/0990-0605013043
- 8- **Ahmed E. El-Raves**, Farouk M. El-Fawal, Shams El-Din Shahin, Salma M. Abdel-Nabi (2018): Distribution and Geo-Chemical Assessment of the Bottom Sediments, Northern Part of Damietta-Branch, River Nile, Egypt. *IOSR Journal of Applied Geology and Geophysics*, 6(4):1-17, Doi:10.9790/0990-0604030117
- 9- **El-Raves, A. E.**, Arnous, M.O., and Aziz, A. M. (2017): Morphotectonic controls of groundwater flow regime and relating environmental impacts in Northwest Sinai, Egypt. *Arab J Geosci*, 10:401, DOI 10.1007/s12517-017-3188-5.
- 10- Arnous, M.O., **El-Raves, A.E.** and Helmy, A.M. (2017): Land-use / land-cover change: A key to understanding land degradation and relating environmental impacts in Northwestern Sinai, Egypt. *Environmental Earth Sciences*, 76(7), 26, DOI 10.1007/s12665-017-6571-3.
- 11- Rana Y. El-Kady, **Ahmed E. El-Raves**, Yasser M. Sultan & Akram M. Aziz (2017): Mapping of Soil Geochemistry in Port Said Governorate, Egypt Utilizing GIS and Remote Sensing Techniques. *Imperial Journal of Interdisciplinary Research*, 3(3):1261-1270, Finlogy Publication, India.
- 12- Al-Oshari, F., **El-Raves, A. E.**, Geriesh, M., Ghodeif, K., and Arnous, M. O. (2016): Impact of land-use changes on groundwater quality of Ibb basin, Yemen. 3rd Young Researchers Conf., Quality, Excellence and Sustainability, 7-8 May 2016, Suez Canal University, Ismailia, Egypt (Accepted Abstract).
- 13- **El-Raves, A. E.**, Arnous, M. O., Afify, H. F. and Badawi, M. Z. (2016): Impacts of natural hazards on groundwater quality of East Nile Delta, Egypt. 3rd Young Researchers Conf., Quality, Excellence and Sustainability, 7-8 May 2016, Suez Canal University, Ismailia, Egypt (Accepted Abstract).
- 14- **El-Raves, A. E.**, Arnous, M. O., El-Nady, H. I. and Helmy, A. M. (2016): Impacts of land-use/Land-cover changes on the environment of Northwest Sinai, Egypt. 3rd Young Researchers Conf., Quality, Excellence and Sustainability, 7-8 May 2016, Suez Canal University, Ismailia, Egypt (Accepted Abstract).
- 15- **El-Raves, A. E.**, and Arnous, M. O. (2015): A novel approach in hydrogeochemical exploration for uranium mineralization: example from west central Sinai, Egypt, *Acta Geologica Sinica* (English Edition), 89 (6): 1895–1913, DOI: 10.1111/1755-6724.12606.
- 16- Arnous, M. O., **El-Raves, A. E.** and Green, D. R. (2015): Hydrosalinity and environmental land degradation assessment of the East Nile Delta region, Egypt, *J Coast Conserv*, 19 (4): 491–513, DOI 10.1007/s11852-015-0402-z.
- 17- **El-Raves, A. E.**, Arnous, M. O., Aboulela, H. A. (2015): Hydrogeochemical and seismological exploration for geothermal resources in South Sinai, Egypt utilizing GIS and remote sensing, *Arab J Geosci*, 8 (8): 5631–5647, DOI 10.1007/s12517-014-1667-5.
- 18- Arnous, M. O. and **El-Raves, A. E.** (2013): An integrated GIS and hydrochemical approach to assess groundwater contamination in West Ismailia area, Egypt, *Arab J Geosci.*, 6(8):2829-2842, DOI 10.1007/s12517-012-0555-0.
- 19- Basma M. H. Mansour, **Ahmed E. El-Raves** and Mona F. Kaiser (2015): The Impacts of Human Activities on the Hydrogeological Regime of East Nile Delta, Egypt. *J. Egyptian Society of Environmental Sciences CATRINA*, 12(1):49 -61, Ismailia, Egypt.
- 20- Kaiser, M.F., **El Raves A.E.**, Ghodeif, K. and Geriesh, B. (2013). "GIS data integration to manage waterlogging problem on the Eastern Nile Delta of Egypt". *International Journal of Geosciences*, 4 (4):680-687. doi:10.4236/ijg.2013.44063, Scientific Research Publishing.

Curriculum Vitae

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Geology	القسم Department	Science	الكلية Faculty	Suez Canal Institute / University
June 1995	تاريخ الحصول على الدرجة Date of Graduation	Ph.D. Geology (Hydrogeology)		أعلى درجة علمية Highest Degree (MD, PHD)
Professor	اللقب العلمي Academic Title	Channel system (Egypt/Germany)		الدولة التي حصل على الدرجة منها Country
Hydrogeology	المجال الدقيق	Geology		المجال العام
Hydrogeology	Specialization field	Geology		Major field
Research Interests				
الاهتمامات البحثية				
استكشاف وإدارة الموارد المائية - التأثيرات البيئية على الموارد المائية - تلوث موارد المياه - معالجة المياه				
List of publications				
الأبحاث المنشورة				
<p>1- M Abdelfattah, A Gaber, M H Geriesh, T M Hassan (2021): Investigating the less ambiguous hydrogeophysical method in exploring the shallow coastal stratified-saline aquifer: a case study at West Port Said Coast, Egypt. Environmental Earth Sciences 80 (4), 1-14.</p> <p>2- M. H. Geriesh, E. Shendi, M. Arnous, B. Mansour, E. Abu El Ella (2020): Hydro-environmental Hazards Impact Assessment of Urbanization Development at the Suez Canal Corridor Area, Egypt. 14th International Geological Conference, GSS20, Jeddah, Saudi Arabia, 3-6 March, 2020. Ap. 144.</p> <p>3- Arnous M.O, El-Rayes A.E, Geriesh M.H, Ghodeif K.O and Al-Oshari F.A, (2020): Groundwater potentiality mapping of Tertiary volcanic aquifer in IBB basin, Yemen by using remote sensing and GIS tools". J Coast Conserv. 24-27 (3).</p> <p>4- A El-Rayes, A Omran, M Geriesh, V Hochschild (2020): Estimation of hydraulic conductivity in fractured crystalline aquifers using remote sensing and field data analyses: An example from Wadi Nasab area, South Sinai, Egypt. Journal of Earth System Science 129 (1), 1-21.</p> <p>5- Geriesh, M. H., Mamoun K., Gaber A. and Mansour B.M.H. (2019): Exploring Groundwater Resources and Recharge Potentialities at El-Gallaba Plain Area, Western Desert, Egypt. Groundwater 58, no. 5: 842–855 September/October 2020.</p> <p>6- Arnous M.O., El-Rayes A.E, Geriesh M.H.& Gouda A.F. (2019): Change detection appraisal of new Suez Canal Area utilizing remote sensing and GIS tools. The sixth Young Researchers Conference, YRC 7-8 April, 2019, Suez Canal University, Ismailia, Egypt. http://yrc2019.weebly.com.</p>				

- 7- **El-Rayes A.E., Geriesh M.H., Arnous M.O & Ghareib, R. A. (2018):** Assessment of waterlogging feature along Suez Governorate Area using remote sensing and geographic information system techniques. The 5th Young Researchers Conference, YRC 7-8 April 2018, Suez Canal University, Ismailia, Egypt. <http://yrc2018.weebly.com>.
- 8- **Ahmed Gaber, Mohamed H. Geriesh, Shams El-Din Shaheen, Mohamed A.El-Fattah (2016):** Mapping the surface changes in the area of East Port-Said, Egypt using Multi-Temporal and Multi-Sensors Remote Sensing Data. IOSR Journal of Applied Geology and Geophysics (IOSR-JAGG) e-ISSN: 2321-0990, p-ISSN: 2321-0982. Volume 4, Issue 5 Ver. I (Sep. - Oct. 2016), PP 19-29.
- 9- **Geriesh, M.H, El-Rayes A.E., Gomaah, R.M, Kaiser, M.F., and Abdelaleem, M. (2015):** Geoenvironmental Impact Assessment of El-Salam Canal on the Surrounding Soil and Groundwater Resources, North-Western Sinai, Egypt. 6 International Conference of Egyptian Society of Environmental Sciences, ESES, Ismailia, 4-6 March, 2015.
- 10- **Naema M. Moheb, Ahmed E. El Rayes, Mohamed H. Geriesh, Mona F. Kaiser and Hisham M. Gadou (2015):** Geologic Factors Controlling Urban Planning of Ismailia City, Suez Canal Province, Egypt. CATRINA (2015), 12 (1): 1-6© 2015 BY THE EGYPTIAN SOCIETY FOR ENVIRONMENTAL SCIENCES.
- 11- **Mohamed Helmi Geriesh, Balke, D.- Klaus, Ahmed El-Rayes and Basma Mansour (2015):** Implications of Climate Change on the Groundwater Flow Regime and Geochemistry of the Nile Delta, Egypt. J Coast Conserv. 19(4):589-, DOI 10.1007/s11852-015-0409-5.
- 12- **M. Helmi Geriesh, Ahmed Gaber and Magaly Koch (2014):** Exploring Renewable Groundwater Aquifers in the Western Desert of Egypt Using Near-Surface and Hydro-Geophysical Imaging Methods, SEG/DGS Int. Workshop: Near Surface Modeling & Imaging, Manama, Bahrain, 8-9 March 2014.
- 13- **Geriesh, M.H., El-Rayes, A.E., Kaiser, M.F., Mansour, B. M. H., and Abd El-Aleem, M. (2014):** Geoenvironmental Impact Assessment of Suez Canal Corridor Development Area, Challenges and Opportunities, Suez Canal and Sinai Province, Egypt. Annual In conference of Association of Egyptian American Scientist, AEAS, Cairo, December, 26-27, 2014.
- 14- **Magaly Koch, Ahmed Gaber, Mohamed H. Geriesh, El-Sayed A. Zaghloul, Sayed M. Arafat, and Mostafa Abubakr (2013):** Multi-sensor characterization of subsurface structures in a desert plain area in Egypt with implications for groundwater exploration, SPIE Remote Sensing, internat. Forum, Dresden, September, 23-26, 2013-8887-37.
- 15- **Adel Omran, Michael Hahn, Volker Hochschild, Ahmed El-Rayes & Mohamed Geriesh (2012):** Lithological Mapping of Dahab Basin, South Sinai, Egypt using ASTER data, Photogrammetrie – Fernerkundung – Geoinformation (PFG), Germany, Stuttgart,6, 0711-0726.
- 16- **Aboubakr, M., El-Baz, F., Geriesh, M. H.Gabr, S., Ghoneim, E., Zeineldin, M., and Zeid, S. (2012):** Paleo-Channel delineation as an indication of groundwater accumulation in Northern Sinai, Egypt. Geological Society of America, Annual meeting, 7th November, 2012, GSA Vol. 44, No. 7, p. 551.
- 17- **Gaber, A., Magaly Koch, Geriesh, M. H., Motoyuki Sato and Farouk El-Baz (2012):** Near-Surface Imaging of a Buried Foundation in the Western Desert, Egypt, Using Space-borne and Ground Penetrating Radar. Journal of Archaeological Science 40 (2013) 1946-1955.
- 18- **Magaly Koch, Ahmed Gaber, Benjamin Burkholder, M. Helmi Geriesh (2012):** Development of New Water Resources in Egypt with Earth Observation data: Opportunities and Challenges, International Journal of Environment and Sustainability ISSN 1927.9566 | Vol. 1 No. 3, pp. 1.11 (2012) www.sciencetarget.com.

19-Gaber, A., Koch, M., Geriеш, M.H., and Sato, M. (2011), "SAR Remote Sensing of Buried Faults: Implications for Groundwater Exploration in the Western Desert of Egypt", Sensing and Imaging: An International Journal, Vol. 12 No. 3-4, pp. 133-151

Curriculum Vitae

Arabic name	أ.د. محمد عثمان عرنوس			الاسم (عربي)
Name (English)	Prof. Mohamed Osman Arnous			الاسم (إنجليزي)
01210604376	الموبايل Mobile No.	mohamed.arnous@science.suez.edu.eg arnous_72@yahoo.com		البريد الإلكتروني E-mail
الجيولوجيا Geology	القسم Department	العلوم Science	الكلية Faculty	جامعة قناة السويس Suez Canal University Institute / University
2004	تاريخ الحصول على الدرجة Date of Graduation		PhD	أعلى درجة علمية Highest Degree (MD, PHD)
أستاذ professor	اللقب العلمي Academic Title		مصر Egypt	الدولة التي حصل على الدرجة منها Country
تطبيقات الاستشعار عن بعد ونظم المعلومات الجغرافية	المجال الدقيق		الجيولوجيا	المجال العام
Applications of remote sensing and GIS	Specialization field	Geology		Major field

Research Interests

الاهتمامات البحثية

- 1- Remote Sensing & Geographic Information Systems (GIS) applications.
- 2- Groundwater exploration and water resources management.
- 3- Environmental geological hazards.
- 4- Land use planning.
- 5- Environmental impact assessment.
- 6- Climatic change.
- 7- Urban Planning.
- 8- Geo-environmental hazards assessment
- 9- Exploration geology
- 10- Sustainable energy.

list of publications

الأبحاث المنشورة

- 1- Arnous, M.O., ElMowafy, A. A., Azzaz, S. A., Omar, A. E., Abdel Hafeez, W. M. (2021): Exploration radioactive mineralization using mappable data integration approach: example from Wadi Dahab area, Southeastern Sinai, Egypt. Arabian Journal of Geosciences, 14,599. DOI: 10.1007/s12517-021-06781-5
- 2- Moubarak, A. H. Arnous, M. O., El-Rayes, A. E., (2021): Integrated Geoenvironmental and Geotechnical Risk Assessment of East Port Said Region, Egypt for Regional Development. Geotechnical and Geological Engineering, 39 (2), 1497-1520, DOI: 10.1007/s10706-020-01571-4

- 3- Omran, A., Fahmida, K., Schröder, D., **Arnous, M. O.**, El-Rayes, A. E., Hochschild, V. (2021): GIS-based rockfall hazard zones modeling along the coastal Gulf of Aqaba Region, Egypt. *Earth Science Informatics*, 14 (2), 691-709, DOI:10.1007/s12145-021-00580-y
- 4- **Arnous, M. O.**, El-Rayes, A. E., Geriesh, M. H., Ghodeif, K. O. and Al-Oshari, F. (2020): Groundwater potentiality mapping of tertiary volcanic aquifer in IBB basin, Yemen by using remote sensing and GIS tools. *J Coast Conserv*, 24, 27. DOI:10.1007/s11852-020-00744-w
- 5- **Arnous, M.**, Geriesh, M. H., Shendi, E., Mansour, B. (2020): Appraisal of land degradation and land-use / land-cover change for sustainable development of Suez Canal region, Egypt: Utilizing Remote Sensing and GIS, The 13th International Geological Conference, Jeddah, Saudi Arabia.
- 6- Geriesh, M. H., Shendi, E., **Arnous, M.**, Mansour, B., Abu El Ella, E. (2020): Hydro-environmental hazards impact assessment of urbanization development at the Suez Canal Corridor Area, Egypt, The 13th International Geological Conference, Jeddah, Saudi Arabia.
- 7- El-Rayes, A. E., **Arnous, M. O.** and Al-Oshari, F. (2020): Integrated groundwater contamination assessment of tertiary volcanic aquifer, IBB, Yemen. Conference: SSG 2020, The 13th International Geological Conference, Jeddah, Saudi Arabia.
- 8- Abu El Ella, E., Geriesh, M. H., Shendi, E., **Arnous, M.**, Mansour, B., (2020): Environmental impact of Land Use (LU)/Land cover (LC) changes on development at the Suez Canal Corridor Area, Egypt, The 13th International Geological Conference, Jeddah, Saudi Arabia.
- 9- **Arnous, M. O.** and Omar, A. E. (2018): Hydrometeorological hazards assessment of some basin in Southwestern Sinai area, Egypt. *Journal of Coastal Conservation*, 22 (4): 721-743, doi 10.1007/s11852-018-0604-2
- 10- **Arnous, M. O.**, Azzaz, S. A., Mowafy, A. A. E., Kamar, M. S., Hafeez, W. M. A., (2018): Using space-borne data and photo-lineament indicators to delineate the probable sites of radioactive mineralization at Wadi Dahab area, Southeastern Sinai, Egypt. *Curr. Sci. Int.* 7 (2), 213–232.
- 11- Azzaz, S. A., **Arnous, M. O.**, ElMowafy, A. A., Kamar, M. S., Hafeez, W. M. A., (2018): Lithological discrimination and mapping using digital image processing, petrographic and radioactive investigation of Wadi Dahab area, Southeastern Sinai, Egypt. *Middle East J. Appl. Sci.* 8 (2), 444–464.
- 12- El-Rayes, A. E., **Arnous, M. O.**, and Aziz, A. M. (2017): Morphotectonic controls of groundwater flow regime and relating environmental impacts in Northwest Sinai, Egypt. *Arab J Geosci*, 10:401, DOI 10.1007/s12517-017-3188-5.
- 13- Sultan, Y. M., El-Shafei, M. K., and **Arnous, M. O.** (2017): Tectonic evolution of Kid metamorphic complex and the recognition of Najd fault system in South East Sinai, Egypt. *International Journal of Earth Sciences*, 106 (8): 2817–2836 DOI: 10.1007/s10053-017-1471-1.
- 14- **Arnous, M. O.**, El-Rayes, A. E. and Helmy, A. M. (2017): Land-use / land-cover change: A key to understanding land degradation and relating environmental impacts in Northwestern Sinai, Egypt. *Environmental Earth Sciences*, 76(7), 26, DOI 10.1007/s12665-017-6571-3.
- 15- Omar, A. E., **Arnous, M. O.**, El-Ghawaby, M. A., Alshami, A. S., El Zalaky M. A. (2016): Seismotectonic hazards assessment in Southwestern Sinai area using remote sensing and GIS. *Sinai Journal of Applied Sciences* 5 (3), 427-442
- 16- Omar, A. E., **Arnous, M. O.**, El-Ghawaby, M. A., Alshami, A. S., El Zalaky M. A. (2016): Flash flood hazards mapping of Wadi Baba basin, Southwestern Sinai, Egypt. *Sinai Journal of Applied Sciences* 5 (3), 409-426
- 17- **Arnous, M. O.** (2016): Groundwater potentiality mapping of hard-rock terrain in arid regions using geospatial modelling: example from Wadi Feiran basin, South Sinai, Egypt. *Hydrogeology Journal*, 24(6):1375-1392, DOI 10.1007/s10040-016-1417-8.

18-Al-Oshari, F., El-Rayes, A. E., Geriash, M., Ghodeif, K., and **Arnous, M. O.** (2016): Impact of land-use changes on groundwater quality of Ibb basin, Yemen. 3rd Young Researchers Conf., Quality, Excellence and Sustainability, 7-8 May 2016, Suez Canal University, Ismailia, Egypt (Accepted Abstract).

Curriculum Vitae

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Name (English)	Kamal Ghodeif			الاسم (إنجليزي)
01006827204	Mobile No	kghodeif@yahoo.com; kamal_ghodeif@science.suez.edu.eg		البريد الإلكتروني E-mail
Geology	Department	Faculty	Science	Suez Canal University الجامعة/المعهد Institute / University
2002		تاريخ الحصول على الدرجة Date of Graduation	PhD	أعلى درجة علمية Highest Degree (MD, PHD)
Professor		اللقب العلمي Academic Title	Poland	الدولة التي حصل على الدرجة منها Country
المياه الجوفية والمعالجة الطبيعية للمياه		المجال الدقيق	علوم الأرض	المجال العام
Hydrogeology and water treatment	Specialization field	Geology		Major field
Research Interests				الاهتمامات البحثية
<ul style="list-style-type: none"> - Groundwater development and management - Natural water treatment techniques (Bank Filtration & Soil Aquifer Treatment) - Water quality and pollution - Water and Wastewater treatment - Climate resilience (adaption measures for the water sector) 				
list of publications (since 2011)				الأبحاث المنشورة
<p>1- Kamal Ghodeif, Rifaat A. Wahaab, Thomas Grischek, Hana Afifi & Neveen Wahsh (2022): Bank filtration for climate resilience: potentiality of a new site along the Ismailia Canal in Egypt. <i>Geologos</i>, Vol. 28, No. 1, pp. 51-60, DOI: https://doi.org/10.2478/logos-2022-0004</p> <p>2- Kamal Ghodeif (2022): Book Reviews, The Nile Basin: Quaternary geology, geomorphology and prehistoric environments. <i>Geologos</i>, Vol. 28, No. 1, pp. 79-80; DOI: https://doi.org/10.2478/logos-2022-0006</p> <p>3- Ghodeif, K. (2021): Global groundwater: source, scarcity, sustainability, security, and solutions. Book review, <i>Geologos</i> 27, 2: 137–138. DOI: 10.2478/logos-2021-0015.</p> <p>4- Amr Abogabal, Mohamed Bakr, Kamal Ghodeif and Eglal R. Souaya (2020): The efficiency of bank filtration to remove chemical pollutants in Egypt: field and batch studies. <i>Egyptian Journal of Chemistry</i>, DOI: 10.21608/ejchem.2020.17965.2093.</p> <p>5- Ghodeif, K., Paufler, S., Grischek, T. et al. (2018) Riverbank filtration in Cairo, Egypt—part I: installation of a new riverbank filtration site and first monitoring results. <i>Environ Earth Sci</i> 77: 270. https://doi.org/10.1007/s12665-018-7450-2</p>				

- 6- **Kamal Ghodeif**, Abdel Hafez Hassan, Mohamed Mokhtar and Ahmed Mohamed Elkomy (2019): Beach Filtration for Low-Cost RO Desalination and Environment Protection - A Case Study of Sharm El-Sheikh, South Sinai, Egypt. Journal of Al Azahar University Engineering Sciences (JAUES), Cairo, Egypt.
- 7- **Kamal Ghodeif**; Abdel Hassan; Mohamed Mokhtar; Ahmed Mohamed Elkomy (2019): Integrated management of flood water harvesting and groundwater recharge Wadi Zalaga at Wateir region, South Sinai. Journal of Egyptian Academic Society for Environmental Development, Volume 20, Issue 1, Page 91-101.
- 8- Paufler S, Grischek T, Bartak R, **Ghodeif KO**, Wahaab R, Boernick H (2018) Riverbank filtration in Cairo, Egypt—**Part II**: Detailed investigation of a new riverbank filtration site with a focus on manganese. Environ Earth Sci 77(8):318. <https://doi.org/10.1007/s12665-018-7500-9>
- 9- **Ghodeif K**, Wahaab R, Sorour S (2017) The impact of low-flow season on source drinking water quality, Rosetta branch, Egypt. Journal of Water, Sanitation and Hygiene for Development 7(3):477-484; doi:10.2166/washdev.2017.158
- 10- **Ghodeif, K.**, Grischek, T., Bartak, R., Wahaab, R., Herlitzius, J. (2016). "Potential of river bank filtration (RBF) in Egypt." J. Environmental Earth Sciences, 10.1007/s12665-016-5454-3, 75 (8), art. no. 671.
- 11- Bartak, R., Grischek, T., **Ghodeif, K.**, and Wahaab, R. (2015)." Short comings of the RBF Pilot Site in Dishna, Egypt." J. Hydrol. Eng., 20 (9), 05014033.
- 12- Grischek, T., Ahrns, J., Kuehne, M., Bartak, R., Herlitzius, J., **Ghodeif, K.**, Wahaab, R.A. (2013) Coupling riverbank filtration and subsurface iron removal. Proc. Int. Symp. on Managed Aquifer Recharge, 15.-18.10.2013, Beijing, 1-8.
- 13- Joop Harmsen, **Kamal Ouda Ghodeif**, Mohamed Sherif Saad S. El Tony, Hakiem El Wagieh, Enas Michael, Esam Helmy and Floris van der Veen, 2014. Rural Sanitation in Egypt; The Minya Approach. Wageningen, Alterra Wageningen UR (University & Research centre), Alterra report 2584. 74 pg.; 26 fig.; 19 tab.; 16 photos; 11 ref.
- 14- Rico Bartak, Thomas Grischek, **Kamal Ghodeif** and Chittaranjan Ray (2012): Beach Sand Filtration as Pre-Treatment for RO Desalination. Int J Water Sciences, 2012, Vol. 1. www.intechopen.com.
- 15- **Ghodeif, K.** (2011): "Removal of Iron and Manganese within the Aquifer Using Enhanced River Bank Filtration Technique under Arid Conditions. Book chapter in Ray, C., and Shamrukh, M., (eds.) NATO book about Riverbank Filtration for Water Security in Desert Countries, Springer publications.
- 16- **Ghodeif, K**; Arnous M. and Geriesh M. (2011): Define a protected buffer zone for Ismailia Canal, Egypt using Geographic Information Systems. *Arabian Journal of Geosciences*, pp. 1-11.

Curriculum Vitae

Arabic name	محمد عبد الرحيم عبد العزيز حسن			الاسم (عربي)	
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الأراضي و المياه Soil and Water	القسم Department	الزراعة Agriculture	الكلية Faculty	قناة السويس Suez Canal	الجامعة/المعهد Institute / University

2002	تاريخ الحصول على الدرجة Date of Graduation	دكتوراة PhD	أعلى درجة علمية Highest Degree (MD, PHD)
أستاذ دكتور Prof. Dr.	اللقب العلمي Academic Title	المانيا Germany	الدولة التي حصل على الدرجة منها Country
بيدولوجي الأراضي و الاستشعار عن بعد وتطبيقاته	المجال الدقيق Specialization field	علوم الأراضي Soil Science	المجال العام Major field
Soil Pedology & RS Application	Soil Science	Soil Science	Major field
Research Interests		الاهتمامات البحثية	
Environmental applications, remote sensing and soil pedagogy		التطبيقات البيئية و الاستشعار عن بعد و بيدولوجي الأراضي	
1- Land use land cover (LULC) and urban planning management. 2- RS and GIS application of soils. 3- Impact of groundwater effect in agriculture soils. 4- Soil groundwater exploration and hazards. 5- Environmental of soils hazards. 6- Sustainable agriculture development. 7- Soil physical and chemical properties. 8- Soil mineralogical analyses and interpretation. 9- Groundwater exploration and water resources management.			
list of publications		الأبحاث المنشورة	
1- Hassan, M. A. A. and Farag, F. M. (2008). Geomorphology, Classification and Evaluation of Wadi Watir Soils in Southeastern Sinai Using Combined Remote Sensing and GIS techniques. The Oecologia Aegyptiaca Journal, Vol. 1, pp. 12 -28. 2- Hassan, M. A. A. (2009). Morphological and pedological characterization of sand dunes in the northern part of Sinai Peninsula using remote sensing integrated with field investigations. The 2 nd International Conference on Natural Resources in Africa, 12 May 2009, Cairo, Egypt, Bull. II, pp. 22 - 47. 3- Hassan, M. A. A. (2009). Textural attributes and mineralogy in relation to provenance of sand dunes of North Sinai using remote sensing. Egypt. J. Soil. Sci. 49, No. 2, pp. 215 -233. 4- Hassan, M. A. A. (2010). Chapter 2: El Maghara Ecosystem, Trends, Conditions and Impacts, in Book "Ecosystems and Human Well-Being Maghara, Northern Sinai, Egypt". Produced by Division of Early Warning and Assessment (DEWA) - United Nations Environment Programme (UNEP), ISBN: 978-92-807-3056-2, Publication is available in, http://www.earthprint.com . 5- Hamed, Y. A.; Abdelmoneim, T. S.; ElKiki, M. H.; Hassan, M. A. A. ; and Berndtsson, R. (2013). Assessment of Heavy Metals Pollution and Microbial Contamination in Water, Sediments and Fish of Lake Manzala, Egypt. Life Science Journal; 10 (1), pp. 86-99. http://www.lifesciencesite.com/ljsj/life1001/014_12554life1001_86_99 . 6- Hassan, M. A. A. (2014). Integration of Remote Sensing (RS) and Geographic Information System (GIS) techniques for change detection of the Land Use and Land Cover (LULC) for Soil Management in Southern Port Said Region, Egypt. Proceedings of SPIE: Volume 9260, Land Surface Remote Sensing II, 926032 (2014); Doi:10.1117/12.2179079; http://dx.doi.org/10.1117/12.2179079 .			

- 7- Arnous, O. M. and **Hassan, M. A. A.** (2015). Heavy metals risk assessment in water and bottom sediments of the eastern part of Lake Manzala, Egypt, based on remote sensing and GIS. Arab J Geosci (2015) 8:7899–7918. <https://www.mdpi.com/2071-1050/9/10/1846/pdf>
- 8- **Hassan, M. A. A.** and Omran, E. S. E. (2017). Modelling of land use changes and their effects by climate change at the southern region of Port Said governorate, Egypt. Modeling Earth Systems and Environment, April 2017, pp. 3:13. <https://link.springer.com/article/10.1007/s40808-017-0276-1>
- 9- Mohamed, A. I. and **Hassan, M. A. A.** (2017). Mapping of Groundwater Quality in Northern Sinai Using GIS Technique. Merit Research Journal of Agricultural Science and Soil Sciences (ISSN: 2350-2274), Vol. 5 (2) pp. 024-039, Available in, <http://meritresearchjournals.org/asss/index.htm>.
- 10-**Hassan, M. A. A.** (2017). Pedological studies for some soil on sides of the Ismailia Canal in the Eastern part of Nile Delta in Egypt. Global Advanced Research Journal of Agricultural Science (ISSN: 2315-5094) Vol. 6 (8) pp. 240-252, August, 2017 Issue. Available in, <http://garj.org/garjas/home>.
- 11-Abd-El Monsef, H.; **Hassan, M. A. A.**; and Shata, S. (2017). Using spatial data analysis for delineating existing mangroves stands and sitting suitable locations for mangroves plantation. Computers and Electronics in Agriculture 141 (2017), pp. 310–326, Available in, <http://dx.doi.org/10.1016/j.compag.2017.08.002>.
- 12-Awes, R. S. M.; Belal, A. B. A.; **Hassan, M. A. A.** and Abd El-Azeem, S. A. M. (2017). Capability of field spectroscopy for the assessment of soil contamination in southern Port Said Governorate. Zagazig J. Agric. Res., Vol. 44 No. (4) 2017.
- 13-Hassana, A.M.; Belalb,A.A.; **Hassan, M. A. A.**; Faraga, F.M. and Mohamed, E.S. (2019) Potential of thermal remote sensing techniques in monitoring waterlogged area based on surface soil moisture retrieval. Journal of African Earth Sciences 155 (2019) 64-74. <https://doi.org/10.1016/j.jafrearsci.2019.04.005>.
- 14-Mohamed E. M. Jalhoom; Yasser S.A. Mazrou; **Mohamed A. Hassan**; Fathalla M. Farag; Mostafa. A. Abdellatif1; Elsayed A. Abdelsamie1; Mohamed E. Amin1; Ahmed A. El Baroudy; Abdelaziz A. Belal1 and Mohamed S. Shokr (2022) Modeling of Agro-Ecological Zones for Sustainable Agriculture Development in Halayeb Area, Egypt. Egypt. J. Soil Sci. Vol. 62, No. 1, pp. 55 - 71 (2022) <http://ejss.journals.ekb.eg/>

Curriculum Vitae

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قسم الهندسة المدنية	القسم Department	كلية الهندسة	الكلية Faculty	جامعة قناة السويس المعهد Institute / University
2001		تاريخ الحصول على الدرجة Date of Graduation	PhD	أعلى درجة علمية Highest Degree (MD, PHD)

أستاذ	اللقب العلمي Academic Title	جمهورية مصر العربية	الدولة التي حصل على الدرجة منها Country
	المجال الدقيق Specialization field		المجال العام Major field

Research Interests
الاهتمامات البحثية

Soil stabilization, Deep foundation, Site exploration, stability of slopes, shear strength of soil, water seepage, soil testing, foundation retrofit, others

list of publications
الأبحاث المنشورة

- 1- Moubarak A., **Hafez k.**, Elkamash W., "Stabilization of Soft Clay Soil by Deep Mixing ". Life Science Journal, Zhengzhou University. Vol.17 (3),2020.
- 2- Moubarak A., **Hafez k.**, Elkamash W., "Improvement of Soft Organic Clay Soil Using Vertical Drains ". KSCE Journal of Civil Engineering, DOI 10.1007/s12205-020-0561-9. Dec 2020.
- 3- Alaa El-Hosani Refai Kassab, Azza Moubark, Waleed Elkamash and **Kamal Mohamed Hafez**, "Shear Strength of Unsaturated Soils with Different Plasticity", Journal of University of Shanghai for Science and Technology, Vol 23, Issue 11, Nov. 2021
- 4- Alaa El-Hosani Refai Kassab, **Kamal Mohamed Hafez**, Waleed ElKamash, and Azza Moubark, and, "Shear Strength behavior of Unsaturated Clay, "Life Science Journal"2021
- 5- Moubarak A., **Hafez K.**, Farouk K. (2018) Behavior of Laterally Flexible Piles in Soft Clay. Life Science Journal; 15 (7).
- 6- Moubarak A., **Hafez K.**, Hamad A. (2018) Analysis of Micropiles Constructed in Sandy Soil of Ismailia Area. Port-Said Engineering Research Journal, Vol.(22), No.(1) March. 4.
- 7- Manar Nasr., A. Hamad, and **Kamal Ismail**, "Study of the Behavior of Offshore Foundations Embedded in Sandy Soil", Aswan Faculty of Eng. Journal, Aswan Uni. March 2018.
- 8- K.F. Ibraheem, **Hafez K.** Ismail, and A. H. Moubarak " Laterally Loaded Single Piles in Soft Clay at East of Port-Said, Egypt", 14th ASEC Conference, April 2018, Jordan University of Science & Technology.
- 9- Ashraf Ahmed, Mostafa Bakry and **Kamal Ismail**, "Analysis of Vertically Loaded Strip Footings using the Probabilistic, Aswan Faculty of Eng. Journal, Aswan Uni., March 2018
- 10- Abd-Elrahman Hassan, A. Hamad and **K.M.H. Ismail** "Analysis of P-y curves of Large Diameter Mono Piles Driven in Different Soil Types", Aswan Faculty of Eng. Journal, Aswan Uni., March 2018.

Curriculum Vitae

Arabic name	ا.م.د/ عزة حسن إبراهيم مبارك			الاسم (عربي)
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قسم الهندسة المدنية	القسم Department	كلية الهندسة	الكلية Faculty	جامعة قناة السويس Institute / University
2013	تاريخ الحصول على الدرجة Date of Graduation	PhD		أعلى درجة علمية Highest Degree (MD, PHD)

أستاذ مساعد بقسم الهندسة المدنية	اللقب العلمي Academic Title	EGYPT	الدولة التي حصل على الدرجة منها Country
	المجال الدقيق Specialization field		المجال العام Major field

Research Interests

الاهتمامات البحثية

- 1- Improvement of soft soil.
- 2- Soil -structure interaction.
- 3- Sustainable civil infrastructures.
- 4- Design of foundations (piles and micro-piles).
- 5- Unsaturated soil and its properties.
- 6- Improvement of Unsaturated soil.
- 7- Environmental geological hazards.
- 8- Groundwater exploration and its hazards.

list of publications

الأبحاث المنشورة

- 1- **Moubarak A.**, Mohamadein M., El Gendy M., EL Arabi E., El Azab M. (2013) “Reducing settlement using piledraft for neighboring foundations at port-said “. Port-Said Engineering Research Journal, Vol. (2), No.(17).
- 2- **Moubarak A.**, Mohamadein M., El Gendy M., EL Arabi E., El Azab M.(2013) “Reducing settlement using retaining walls for neighboring foundations at port-said“. Port-Said Engineering Research Journal, vol. (2),No.(18).
- 3- **Moubarak A.**, Hafez K., Hamad A. (2018) “Analysis pf Micropiles Constructed in Sandy Soil of Ismailia Area”. Port-Said Engineering Research Journal, Vol.(22), No.(1) March.
- 4- **Moubarak A.**, Hafez K., Farouk K. (2018) “Behavior of Laterally Flexible Piles in Soft Clay” Life Science Journal; 15 (7).
- 5- **Moubarak A.**, Hassan M., Ikechukwu A. (2018) “Characterization of Hydro-Mechanical Effects of Suction and Clay Minerals on Resilient Modulus, M_r ”. 2nd GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2018-The Official International Congress of the Soil-Structure Interaction Group in Egypt (SSIGE). P.37-59.
- 6- **Moubarak A.**, Hassan M., Ikechukwu A. (2018) “Evaluation of Subgrade Resilient Modulus from Unsaturated CBR Test”. 2nd GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2018-The Official International Congress of the Soil-Structure Interaction Group in Egypt (SSIGE). P.60-81.
- 7- **Moubarak A.**, Hassan M., Ikechukwu A. (2019) “Shear Strength Behavior of Stabilized Unsaturated Expansive Subgrade Soils for Highway Backfill”. International Conference, Bituminous Mixtures and Pavements VII (7ICONFBMP), pp.111-122. Thessaloniki, Greece. May 2019.
- 8- **Moubarak A.**, Hassan M., Ikechukwu A. (2019)” Resilient Modulus and Microstructure of Unsaturated Expansive Subgrade Stabilized with Activated Fly Ash”. International Journal of Geotechnical Engineering. Taylor &Francis Group, 26 Aug 2019.
- 9- **Moubarak A.**, Hassan M., Ikechukwu A. (2019) “Swelling Stress Effects on Shear Strength Resistance of Subgrades”. International Journal of Geotechnical Engineering. Taylor &Francis Group, 27 Aug 2019.
- 10-**Moubarak A.**, Hafez k., Elkamash W., “Stabilization of Soft Clay Soil by Deep Mixing “. Life Science Journal, Zhengzhou University.Vol.17 (3),2020.

- 11-Moubarak A.**, Hafez k., Elkamash W., “Improvement of Soft Organic Clay Soil Using Vertical Drains “. KSCE Journal of Civil Engineering, DOI 10.1007/s12205-020-0561-9. Dec 2020.
- 12-Moubarak A. H.**, Arnous M. O., El-Rayes A. E., (2021): Integrated Geoenvironmental and Geotechnical Risk Assessment of East Port Said Region, Egypt for Regional Development. Geotechnical and Geological Engineering, 39 (2), 1497-1520, DOI: 10.1007/s10706-020-01571-4