السيرة الذاتية

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تاريخ الميلاد: ١٩٦٩/١/١

الجنسية: مصرى

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الشهادات العلمية:

- بكالوريوس العلوم فى الجيولوجيا، كلية العلوم جامعة القاهرة فرع بنى سويف ١٩٩١
- ماجستير فى جيولوجيا المياه و البترول، كلية العلوم جامعة القاهرة ١٩٩٨
- دكتوراه فى جيولوجيا المياه و البيئة كلية العلوم جامعة ليفربول، انجلترا ٢٠٠٧

الوظيفة الحالية

استاذ بقسم المياه و البيئة، كلية علوم الارض جامعة بنى سويف و وكيل الكلية للدراسات العليا

الاهتمامات الرئيسية

الجيولوجيا، دراسات فى جيولوجيا المياه و البيئة، ادارة مصادر المياه، التقييم الهيدرولوجى و الكيميائى للمياه الجوفية و السطحية، التغيرات المناخية و تأيرها على مصادر المياه، الخزانات

الساحلية و تداخل مياه البحر، تقييم و معالجة تلوث المياه و مياه الصرف، تقييم الاثر البيئى، تقييم اثار السيول و اصطياد مياه الامطار

المشاركات العلمية و الاجتماعية

- **عضو فى مجموعة بحثية بالكلية حصلت على العديد من المشروعات البحثية من جهات تويلية مختلفة بياتتها كالتالى**

a) Funded projects

Title	Finance Authority	Year
Water treatment by flakey graphite and active carbon synthesized from El Maghara coal deposits.	Beni-Suef University	2015
Synthetic Organosilicas, Rice Husk Composites and Organoclays Nanocomposites for Watertreatment.	Beni-Suef University	2015
Multidisciplinary approach for modified Egyptian bentonite clays: Preparation, characterization and preliminary evaluation for different potential applications (Italy-Egypt Project)	Beni-Suef University	2016
Nanocomposites and porous materials: Synthesis, characterization and their suitability for different applications (Finland-Egypt project).	Beni-Suef University	2017
Post treatment of Desalinated water using a low coast of local natural materials	STDF	2018
Organic-inorganic hybrid nanocomposites: Synthesis, characterization, and potential applications. (STDF Project).	STDF	2018
preparation of new sorbent materials from agricultural waste and natural materials through	Higher Education Ministry	2018
the re-use of cans bottles in purification and treatment of contaminated water	Higher Education Ministry	2018
Pharmaceutical uptake from wastewater by metal-bearing natural materials: Case study, (Hospital of Beni-Suef University).	Beni-Suef University	2019
Effective removal of wastewater contaminates using magnetic nanoparticles impregnated onto CTAB/H_2O_2–clays: Statistical physics modelling (Bayad Al–Arab, East Beni–Suef)	Beni-Suef University	2019
Agricultural wastewater treatment using the used RO membrane	STDF	2022

- **المشاركة فى العديد من الخدمات البيئية و المجتمعية مثل**

١) تصميم وحدة معالجة الصرف الصناعى لمصنع الفراعنة باك بالفيوم

٢) تحسين خواص المياه المحلاه باستخدام خامات مصرية

٣) اعادة تأهيل و حدة معالجة مياه الصرف الصناعى لمصنع حورس للورق ببنى سويف

٤) تقييم العديد من محطات الصرف ببنى سويف

٥) المشاركة فى دراسة تقييم الاثر البيئى للعديد من المصانع و الشركات بالمناطق الصناعية ببنى سويف.

٦) المشاركة فى دراسة تقييم الاثر البيئى للعديد من محطات توليد الطاقة الكهربائية بالرياح بخليج السويس.

٧) المشاركة فى دراسة تقييم الاثر البيئى للعديد من محطات توليد الطاقة الشمسية.

٨) عمل خطط لمراقبة الخزان الجوفى فى العديد من المناطق الصناعية.

٩) المشاركة فى العديد من الدراسات الخاصة باختيار مواقع المدافن الصحية، تقييم كفائة المواقع الحالية اعادة تأهيلها، بالاضافة الاجراءات المطلوبة لغلقها.

بعض الابحاث المنشورة

- **Mohamed, E.A., and Worden, R.H., 2006.** Groundwater compartmentalisation: a water table height and geochemical analysis of the structural controls on the subdivision of a major aquifer, the Sherwood Sandstone, Merseyside, UK. Hydrology and Earth System Sciences. 10, 49-64.
- **Mohamed, E.A., Worden, R.H., 2008:**Groundwater geochemistry and aquifer characteristics in a hot arid basin, WadiFeiran, Southwest Sinai, Egypt "New Approach". Geology of the Arab World, the 9th Conference, Cairo University.
- **A. E. Edet, R. H. Worden,E. A. Mohammed & M. R. Preston, 2011.**Hydrogeochemical processes in a shallow coastal plain sand aquifer and tidal river systems Calabar, Southeastern Nigeria): tracking wastewater and seawater pollution in ground and river waters. Environ Earth Sci., 2011.
- **E. B. Makashev, B. K. Kumar and E. A. Mohamed, 2013:** Recommended guidelines for improvement of operating reliability and work efficiency of a borehole at an underground gas storage facility. Int. J. Chem. Sci.: 11(1), 2013, 223-230.ISSN 0972-768X
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- **Ramadan H. S, Omirserikov M. Sh., Isaev L. D., Mohammed E. A., 2014.** Evaluation of the Presence of Rare Metals in Katpar and Akshatau Deposits, Central Kazakhstan Using Geological and Geophysical Tools and Development of Geophysical Criteria for Forecasting Rare Metal Deposits. International Journal of Innovative Research in Science, Engineering and Technology, 3(10): 16896-16902.
- **Ramadan H. S, Omirserikov M. Sh., Isaev L. D., Mohammed E. A., 2014:** Scientific Basis of Prospecting Rare Metals and Construction of Petrophysical, Geological and Geophysical Model in Akshatau Field, Central Kazakhstan. Research Journal of Pharmaceutical, Biological and Chemical Sciences, 5 (6): 1003- 1009.
- **M.S.M., Abdelwahed, E.A. Mohamed, M.I. Elsayed, A. M`nif and M. Sillapaa (2015)**:Mineral crystallization sequence during evaporation of a brine involving Na, K, Mg,/Cl, SO4//H2O system collected from EMISAL site, Fayoum, Egypt. Desalination, 355, 11-.21.
- **M.S.M., Abdelwahed, E.A. Mohamed, C. Wolkersdorer, M.I. Elsayed, A. M`nif and M. Sillapaa (2015):** Water Quality of Fayoum surface water, Fayoum province, Egypt. Deltas in Time of Climate Change II, Rotterdam, the Netherlands, 24-26 Sept.
- **Essam A. Mohamed, Ahmed M. El-Kammar, Mohamed M. Yehia,Hend S. Abu Salem, 2015.**Hydrogeochemical evolution of inland lakes' water: A study of major element geochemistry in the Wadi El Raiyan depression, Egypt. JAR.
- **M.S.M., Abdelwahed, E.A. Mohamed, , M.I. Elsayed, A. M`nif and M. Sillapaa (2015):** Hydrogeochemical Processes Controlling the Water Chemistry of a Closed Saline Lake Located in Sahara Desert: Lake Qarun, Egypt. AquatGeochem.
- **Mahmoud S.M. Abdel Wahed, Essam A. Mohamed, Christian Wolkersdorfer, Mohamed I. El-Sayed, Adel M'nif, Mika Sillanpää. 2015.** Assessment of Water Quality in Surface Waters of the Fayoum Watershed, Egypt Environmental Earth Sciences.
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from Aqueous Solutions by Natural and Modified Egyptian Bentonite. American Journal of Applied Chemistry, 2015; 3(6): 179-187

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- **Essam A. Mohamed, Ahmed M. Zayed, Ali Q. Selim, Suzan S. Ibrahim, Moaaz K. Seliem,** 2016: Response surface modeling and optimization of lead uptake from aqueous solution by porous graphitic carbon synthesized from Egyptian bituminous coal. **INTERNATIONAL JOURNAL OF BIOASSAYS.**
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- **Ahmed M. Zayed, Ali Q. Selim , Essam A. Mohamed , Mahmoud S.M. Abdel Wahed, Moaaz K. Seliem, Mika Sillanpää. 2017:** Adsorption characteristics of Na-A zeolites synthesized from Egyptian kaolinite for manganese in aqueous solutions: Response surface modeling and optimization. Applied Clay Science, 140: 17–24.
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- **Mohamed Mobarak, Ali Q. Selim, Essam A. Mohamed, Moaaz K. Seliem, 2018:** A superior adsorbent of CTAB/H2O2 solution−modified organic carbon rich-clay for hexavalent chromium and methyl orange uptake from solutions. Journal of Molecular Liquids, 259: 384-397.
- **Ali Q. Selim, Essam A. Mohamed, Moaaz K. Seliem, Ahmed M. Zayed,** Synthesis of sole cancrinite phase from raw muscovite: Characterization and optimization. Journal of Alloys and Compounds, 762, 2018, 653-667.
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- **Mohamed Mobarak, Ali Q. Selim, Essam A. Mohamed, Moaaz K. Seliem,** Modification of organic matter-rich clay by a solution of cationic surfactant/H2O2: A new product for fluoride adsorption from solutions. Journal of Cleaner Production, 192 (2018) 712-721.

- **Essam A. Mohamed, Ali Q. Selim, Ahmed M. Zayed, Sridhar Komarneni, Mohamed Mobarak, Moaaz K. Seliem,** Enhancing adsorption capacity of Egyptian diatomaceous earth by thermo-chemical purification: Methylene blue uptake. Journal of Colloid and Interface Science, 534 (2019) 408-419.
- **Mohamed Mobarak, Essam A. Mohamed, Ali Q. Selimb, M.F. Eissa, Moaaz K. Seliem,** Experimental results and theoretical statistical modeling of malachite green adsorption onto MCM–41 silica/rice husk composite modified by beta radiation. Journal of Molecular Liquids, 273 (2019) 68-82.
- **Mohamed Mobarak, Essam A. Mohamed, Ali Q. Selim, F.M. Mohamed, Lotfi Sellaoui, Adrián Bonilla-Petricioletd, Moaaz K. Seliem,** Statistical physics modeling and interpretation of methyl orange adsorption on high–order mesoporous composite of MCM–48 silica with treated rice husk. Journal of Molecular Liquids, 285 (2019), 678-687.
- **Mohamed Mobaraka, Essam A. Mohamedb, Ali Q. Selimb, Lotfi Sellaouic, Abdelmottaleb Ben Lamine, Alessandro Erto, Adrián Bonilla-Petriciolete, Moaaz K. Seliem,** Surfactant–modified serpentine for fluoride and Cr(VI) adsorption in single and binary systems: Experimental studies and theoretical modeling. Chemical Engineering Journal, 369 (2019) 333-343.
- **Essam A. Mohamed, Ali Q. Selim, Sayed A. Ahmed, Lotfi Sellaoui, Adrian Bonilla-Petriciolet, Alessandro Erto, Zichao Lif, Yanhui Li, Moaaz K. Seliem,** H2O2-activated anthracite impregnated with chitosan as a novel composite for Cr(VI) and methyl orange adsorption in single-compound and binary systems: Modeling and mechanism interpretation. Chemical Engineering Journal 380 (2020) 122445
- **Essam A. Mohamed, Mohamed Mobarak, Rajeev Kumar, M.A. Barakat, Adrián Bonilla-Petriciolet, Moaaz K. Seliem, Ali Q. Selima,** Novel hybrid multifunctional composite of chitosan and altered basalt for barium adsorption: Experimental and theoretical studies, Colloids and Surfaces A 593 (2020) 124613.
- **M.K. Seliem, M. Mobarak, A.Q. Selim, E.A. Mohamed, Radwa A. Halfaya, Hager K. Gomaa, I. Anastopoulos, A. D. Giannakoudakis, E.C. Lima, A. Bonilla-Petriciolet, G. L. Dotto:** A novel multifunctional adsorbent of pomegranate peel extract and activated anthracite for Mn(VII) and Cr(VI) uptake from solutions: Experiments and theoretical treatment. J Molecular Liquids 311 (2020) 113169.
- **M. Barakat, R. Kumar, M.K. Seliem, A.Q. Selim, M. Mobarak, I. Anstopoulos, D. Giannakoudakis, M. Barczak, A.B. Petriciolet, E.A. Mohamed**: Exfoliated Clay Decorated with Magnetic Iron Nanoparticles for Crystal Violet Adsorption: Modeling and Physicochemical Interpretation. Nanomaterials, 2020, 10, 1454.
- **M. Barakat, A.Q. Selim, M. Mobarak, R. Kumar, M.K. Seliem, A.Q. Selim, , I. Anstopoulos, D. Giannakoudakis, A.B. Petriciolet, E.A. Mohamed, M.K. seleim, S. Komarnini:** Experimental and Theoretical Studies of Methyl Orange Uptake by Mn–Rich Synthetic Mica: Insights into Manganese Role in Adsorption and Selectivity. Nanomaterials, 2020, 10, 1464.

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- **H.S. Ramadan, Rabea A.M. Ali, Mohamed Mobarak, Michael Badawi, Ali Q. Selim, Essam A. Mohamed, Adrián Bonilla-Petriciolet, Moaaz K. Seliem.** One-step fabrication of a new outstanding rutile TiO2 nanoparticles/anthracite adsorbent: Modeling and physicochemical interpretations for malachite green removal. Chemical Engineering Journal, 2021

بعض التقارير الفنية

1. Geological and hydrogeological studies and evaluation of the groundwater aquifer at the eastern side of Nile River East of Biba and Elfashin cities to the benefit of Konoz company of land reclamation and cultivation in the year 2007.
2. Geological and hydrogeological studies and evaluation of the groundwater aquifer at the eastern side of Nile River North of Elminea governorate to the benefit of Savola company of land reclamation and cultivation in the year 2008.
3. Geological and hydrogeological studies and evaluation of the groundwater aquifer at the eastern side of Nile River East of BeniSuef city (South of WadiSannor) to the benefit of Kuwait company of land reclamation and cultivation in the year 2008.
4. Environmental study (EIA, Form B) of the location of the South Valley cement company (North of beniSuef governorate) in the year 2009.
5. Environmental study (EIA, Form B) of the location of Scimitar power station located in Asraan oil field on the western side of Gulf of Suez in the year 2009.

6. Flooding studies and risk assessment of the surface flow for the MersaAlam Beach resort to the benefit of Elseri tourist Development Company, Quser-MersaAlam touristic sector, in the year 2010.
7. Geological and hydrogeological studies of the location of tourist project south of Taba city, Gulf of Aqaba, South Sinai, to the benefit of Travcocompany in the year 2010.
8. Flood risk assessment of the area of Wadi El Nabee El Sagheer for the El Salam Beach resort to the benefit of El Salam Tourist Company, Quser-MersaAlam touristic sector, in the year 2010.
9. Geological and geophysical investigation of subsurface faults and dissolution features, Soma Bay, Hurghada city, red Sea, in the year 2011.
10. Environmental study of the location of tourist at the north beach (Almaza Bay), Mediterranean Sea, to the benefit of Travcocompany in the year 2011.
11. Environmental, geological and hydrogeological studies of El Fostat area (as a base line of a big project concerning redesign and planning of the city), in the year of 2011.
12. Geological and hydrogeological studies of the area of New Burg El Arab city, in year 2011.
13. Environmental, geological and hydrogeological studies of RasMatarma area, South of RasSuder city, Gulf of Sues, Sinai (as a base line of a big tourist project “Daghash Land”), in the year of 2011.
14. Environmental, geological and hydrogeological studies of the location of Mkady resort, south Hurghada, Red Sea , in the year of 2011.

15. Environmental, social and health impact assessment (ESHIA)of onshore seismic acquisition in Shell Egypt exploration blocks Northeast Obaiyed and North Matrouh, 2014.
16. Environmental, impact assessment (EIA)of the Egypt - Saudi Arabia Interconnection line, 2014.
17. Summarize the geology of the Dairutpower station area. Briefly discuss the potential for seismicity and any history of soil liquefaction, 2014.
18. Flood risk assessment of the location recommended to construct waste water treatment plant East of Assuit governorate, 2014.
19. Environmental, social and health impact assessment (ESHIA) of the industrial area (31) east of Beni-Suef Governorate, 2014.
20. Geological and Environmental assessment of Gebel Ataga as a base line study for the construction of power battery station.
21. EIA of the Solar Power station at El Zafarana Area. 2016.
22. Hydrogeology and flood risk assessment of Benban Solar Park, Aswan governorates, 2017.
23. Development of Decommissioning and Rehabilitation plane of Beit-Lahia Wastewater Treatment Plant, Gaza Sector, Palestine, 2018.
24. Hydrogeology and flood risk assessment of Faris Solar Park, Aswan governorates, 2017.
25. EIA of the new power station that will be built at El Hamrawein area Red Sea 2019.
26. EIA of the Wind Farm (Power station) that will be built at Ras Ghareb, Gulf of Suez Egypt 2020.
27. Groundwater monitoring plan of the ANOPC site Assuit.

الخبرات

- معيد بقسم الجيولوجيا كلية العلوم جامعة القاهرة فرع بنى سويف فى الفترة من ١٩٩٢-١٩٩٨
- مساعد استاذ (انتداب) فى قسم العلوم بالجامعة الامريكية بالقاهرة فى الفترة من ١٩٩٧ الى ٢٠٠٢
- مدرس بقسم الجيولوجيا كلية العلوم جامعة بنى سويف من العام ٢٠٠٧ الى ٢٠١٥

- استاذ مساعد بقسم الجيولوجيا علوم بنى سويف من ٢٠١٥ الى ٢٠١٦
- استاذ مساعد بقسم المياه و البيئة بكلية علوم الارض من ٢٠١٦ الى ٢٠١٩
- استاذ بقسم المياه و البيئة بكلية علوم الارض منذ العام ٢٠١٩

المهام بالكلية

- تدريس العديد من المقررات العلمية لمختلف الفرق الدراسية مثل الهيدروجيولوجى، جيولوجيا البترول، الجيولوجيا التركيبية، الجيومورفولوجيا، جيوكيمياء المياه الطبيعية، اساليب اصتياد مياه الامطار، الخزانات الساحلية، تقييم الاثر البيئى.

الاشراف

- **الاشراف على رسالة دكتوراه "دراسة تقييم الاثر البيئى و الاهمية الاقتصادية فى البحيرات المالحة، بحيرة قارون دراسة حالة (منحت)**
- **الاشراف على رسالة دكتوراه " دراسة الهيدروجيولوجيا البيئية لمنخفض وادى الريان بالفيوم" (منحت)**
- **الاشراف عل رسالة دكتوراه تقييم كفاءة العمليات الخاصة بخزانات الغاز التحت سطحية فى المنطقة الجنوبية لجمهورية كازخستان (منحت)**
- **الاشراف على رسالة دكتوراه على تحسين اساسيات الاستكشاف فى مناطق غنية برواسب التعدينية فى وسط كازاخستان (منحت)**
- **الاشراف على رسالة ماجستير عن جودة مياه الشرب بمحافظة الفيوم باستخدام تقنيات (GIS) (منحت)**
- **الاشراف على رسالة دكتوراه عن نمزجة التأثير الاقتصادى على المجتمع المحيط و التغير البيئى على جودة مياه الشرب بمحافظة الفيوم (لم تمنح بعد)**
- **الاشراف على رسالة ماجستير عن دراسة هيدروجيولوجية الخزان الجوفى فى الخزان الجوفى ببنى سويف (منحت)**
- **الاشراف على رسالة دكتوراه عن دراسة الخزان الجوفى فى المنطقة المحصورة بين المنيا و بنى سويف (لم تمنح بعد)**
- **الاشراف على رسالة ماجستير خاصة بتقييم الخزان الجوفى فى دلتا وادى ويتر بجنوب سيناءز (لم تمنح بعد)**
- **الاشراف على رسالة ماجستير عن تقييم الحزان الجوفى فى منطقة سهل الجلابة غرب كوم امبو ، اسوان. (لم تمنح بعد)**
- **عضو فى لجنة شؤون البيئة و خدمة المجتمع**

- **عضو فى لجنة ادارة وحدة التحاليل و مركز الدراسات و ابحاث المياه بالكلية**

التوقيع

عصام عبد الرحمن محمد

استاذ بقسم المياه و البيئة

كلية علوم الارض