
SHORT CURRICULUM VITAE OF Mohamed Mahmoud Gomaa

Prof. Dr. Mohamed Gomaa, head of geophysical exploration research Group, Central Laboratories Network and Center of Excellence, National Research Centre (NRC). He received his MSc. and Ph. D. degrees in geophysics, Cairo University, Egypt in 1996 and 2004, respectively. Now, he is a professor of geophysics at the National Research Centre (NRC). His major research interests involve modeling and simulation of electrical properties of rocks and minerals with a focus on physical properties of texture between grains, mixture laws, composites, and mixtures. His outstanding scientific career received the Egyptian State Incentive Award (Egypt) in Geological Sciences (2010). Received the scientific excellence award from the NRC, Egypt (2013). Received the appreciation award (NRC) for members with high h-index point outputs (2014). Received the National Research Centre award of appreciation on the occasion of 60 years of the presence of the NRC (2016). HONORARY GOLD MEDAL, Awarded by The Organizing Committee of the Global Youth Summit on Net-Zero Future 2024, For a team for outstanding performance in the Climate x Food track of the Net-Zero Challenge of the Global Youth Summit On Net-Zero Future 2024. Has an Egyptian patent. Teaches some courses of Geophysics and geology at the Faculty of Science (Helwan University), and the Faculty of Girls (Ain-Shams University). He has a chapter in Horizons published by Earth Science Research. The author of more than 74 papers published in international journals and submitted more than 20 abstracts in international workshops and conferences with different topics: applied geophysics, geophysics, geology. Served regularly as an editor, associate editor, desktop reviewer, and reviewer for many (366) leading international scientific journals and scientific papers. In 2004, he shared in establishing and founding the Egyptian Society of Applied Petrophysics (ESAP) and the Central Internet Unit (NRC). He is one of the organizing boards and technical committees of nine international conferences. Formal general secretary for the geological branch, Egyptian syndicate of scientific professions. Formal general secretary for the geological branch, Egyptian syndicate of scientific professions, Giza branch. Member for the National Committee for "Earth Nature and Earth Standards" from the Academy of Scientific Research and Technology (2020). Member for the National Committee for the "Conservation of Nature and Natural Resources" from the Academy of Scientific Research and Technology.

Curriculum vitae

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Date of Birth	: 27/04/1966
Religion	: Islam
Origin	: Meet Okba- Giza- Egypt
Nationality	: Egyptian
Military Service	: Finished (15/ 10/ 1988- 1/ 12/ 1989)
Marital Status	: Married.

Education

- 🎓 Professor of Geophysics- National Research Centre- Geophysical sciences department (28/9/2017-Present).
- 🎓 Associate Professor- National Research Centre- Geophysical sciences department (31/7/2012-27/9/2017).
- 🎓 **Ph. D.** (2004): Faculty of Science, Geophysical Sciences Department, Cairo University, Cairo, Egypt, "**Induced polarization Study on iron ore bearing rock samples**".
- 🎓 **M. Sc.** (1996): Cairo University, Cairo, Egypt, "**Frequency response study on iron- ore bearing rock samples**".
- 🎓 **B. Sc.** (1988) Faculty of Science, Geophysics Department, Cairo University, Cairo, Egypt.

Professional Responsibilities

Serve as researcher advisor to students; serve on university or institute committees; engage in scholarly activities, which contribute to the academic mission of the research institute; provide professional assessments in personnel matters when requested. Where appropriate, participate in research development activities; serve on laboratories, independent study activities, and render service to the professional or lay community that is relevant to the individual's academic specialty. Perform other related tasks and duties as assigned.

Work experience

- 🎓 2017- Now: Professor of Geophysics- National Research Centre- Geophysical sciences department.
- 🎓 2012- 2017: Associate Professor- National Research Centre- Geophysical sciences department.
- 🎓 2004- 2012: Researcher, Geology and Geophysics Department, National Research Centre.
- 🎓 Technical writer, Documentation department, Applied Science International Company (ASI) (3/ 9/ 2008-2013).
- 🎓 Administrator, HR department, Steel network Company (STN) for more than one year as a part-time (2005-2006).
- 🎓 1996- 2004: Researcher Assistant, Geology and Geophysics Department, National Research Centre.
- 🎓 1995- 1996: Assistant Researcher, Geology and Geophysics Department, National Research Centre.
- 🎓 1994- 1995: Assistant Researcher, National Research Institute of Astronomy and Geophysics.
- 🎓 1993- 1994: Studentship, Earth physics Department, National Research Centre.

- ✿ Chemist at the “General Egyptian institute for biological and vaccines components” (1/ 4/1993- 9/ 12/ 1994).
- ✿ Chemist for dyes and wet clothes finishing (vice manager of the department) at “GoldenTex company for textiles” (recently group of GoldenTex companies for textiles) at the Tenth of Ramadan City, Egypt (6/ 5/ 1990- 4/ 9/ 1993).

✿Patent✿

- ✿ Pb-free transparent dielectric layer for plasma display panel No. 28233
- Preparation and characterization of different types of lead free glasses for use in plasma display panels
- ✿ Manufacture of a laboratory non-polarized four electrode cell, for solid samples, with low electrical resistance No. 2018 /607
- ✿ Gray water recycling device in homes, factories and hospitals

✿Publications and presentations✿

A) Articles in journals with peer review

- ✿ Gomaa M. M., 2025, Effect of grain shape elongation in direction and perpendicular to current stream (conductive or insulator) on the electrical characteristics of mixtures, Sci. Rep., Vol. 15, pp. 1596. <https://doi.org/10.1038/s41598-024-83223-8>
- ✿ **Gomaa M. M.**, 2024, Electrical properties as a tool for oil and gas exploration: A case study of Wadi Saal, east Central Sinai, Egypt, Journal of Geophysics and Engineering, DOI: 10.1093/jge/gxae121.
- ✿ Ramah M., Heggy E., Nasr A., Toni M., **Gomaa M. M.**, Hanert E., Kotb A., 2024, Nubian aquifer linkage to the High Aswan Dam Reservoir: Initial assessments of processes and challenges, Journal of Hydrology, Volume 644, 131999 <https://doi.org/10.1016/j.jhydrol.2024.131999>
- ✿ Abd El Aziz E. A., Gomaa M. M., 2024, Petrophysical and seismic evaluation of pre rift sediments of the southern Gulf of Suez basin, Egypt, Carbonates Evaporites 39, 96. <https://doi.org/10.1007/s13146-024-01008-6>
- ✿ Abd El Aziz E. A., **Gomaa M. M.**, 2024, Petrophysical Characteristics of the Nukhul Clastic Formation in The Southern Province of the Gulf of Suez, Egypt, Middle East Journal of Applied Sciences, Vol. 14 No. 03 (2024): JULY-SEPTEMBER 2024, pp. 353-371. EISSN: 2706 -7947 ISSN: 2077- 4613 DOI: 10.36632/mejas/2024.14.3.28. <https://www.curreweb.com/mejas/mejas/2024/mejas.2024.14.3.28.pdf>
- ✿ **Gomaa M. M.**, Zarif F., Elshenawy A., Ramah M., and Kotb A., 2024, Modelling and simulating the geoelectrical attributes of near-surface buried objects to optimizing its discovery. Model. Earth Syst. Environ. 10, 5969–5981. <https://doi.org/10.1007/s40808-024-02095-z>
- ✿ **Gomaa M. M.**, Abd El Aziz E. A., 2024, Depositional environment, petrophysical evaluation and electrical properties of Zeit Formation, Northwestern shore of Gulf of Suez, Egypt, Journal of Earth Science, Vol. 35, No. 5, pp. 1720-1737. <https://doi.org/10.1007/s12583-023-1858-7>
- ✿ Zayed M., **Gomaa M. M.**, and Mohamed Ramah, 2024, Site investigation for engineering purposes using geophysical techniques at AlMadabigh area, Cairo, Egypt, Delta Journal of Science, Vol. 48, Issue 1, pp. 33-46. https://djs.journals.ekb.eg/article_338783.html
- ✿ **Gomaa M. M.**, Elshenawy A., Basheer A., Moawad M., and Kotb A., 2023, Synthetic mixture of sand and shale: how conductor (shale) and saturation influence electrical characteristics. Applied Water Science, 13(10). <https://doi.org/10.1007/s13201-023-01981-8>
- ✿ **Gomaa M. M.**, 2023, Speculation of salinity and heterogeneity for some dry and saturated sandstone rocks. Materials Chemistry and Physics, 308, 128297. <https://doi.org/10.1016/j.matchemphys.2023.128297>
- ✿ **Gomaa M. M.**, 2023, Electrical properties of hematite and pure sand synthetic homogeneous mixture. Applied Water Science, 13 (2). <https://doi.org/10.1007/s13201-022-01833-x>

- ✿ **Gomaa M. M.**, 2022, Grain size effect on electrical properties of dry friable sand, the European physical journal: special topics.
<https://doi.org/10.1140/epjs/s11734-022-00667-7>
- ✿ Capozzoli, L.; Giampaolo, V.; De Martino, G.; **Gomaa, M.**; Rizzo, E. Geoelectrical Measurements to Monitor a Hydrocarbon Leakage in the Aquifer: Simulation Experiment in the Lab. *Geosciences* 2022, 12, Issue 10, pp. 360-374.
<https://doi.org/10.3390/geosciences12100360>
- ✿ Abd El Aziz E. A., **Gomaa M. M.**, 2022, Petrophysical analysis of well logs and core samples for reservoir evaluation: a case study of southern Issaran Field, Gulf of Suez province, Egypt, *Environmental Earth Sciences*, Vol. 81, Issue 12, pp. 341.
<https://doi.org/10.1007/s12665-022-10420-x>
- ✿ Abd El Aziz E. A., **Gomaa M. M.**, 2022, Electrical properties of sedimentary microfacies and depositional environment deduced from core analysis of the syn-rift sediments, Northwestern shore of Gulf of Suez, Egypt, *J. of Petroleum Exploration and Production Technology*, Vol. 12, pp. 2915-2936.
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- ✿ **Gomaa M. M.**, 2021, Grain shape and texture effect on electrical characterization of semi-conductor semi-insulator mixture, *Arabian Journal of Geosciences, Special Issue Geology of Africa*, 9th& 10th Conferences, Egypt, Vol. 14, Issue 24, pp. 2802.
<https://doi.org/10.1007/s12517-021-08517-x>
- ✿ **Gomaa M. M.**, Elshenawy A., Basheer A., Kotb A, and Moawad M., 2021, Electrical Properties of a dry mixture of sand and shale, The 6th International Conference on Engineering Geophysics, 25 - 28 Oct 2021, Virtual Conference, Al Ain, UAE, P10, pp. 299-302.
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- ✿ **Gomaa M. M.**, 2022, Frequency response of electrical properties of some Granite samples, *Journal of the Earth and Space Physics*, Vol. 47, No. 4, P. 75-86.
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- ✿ Ammar A. I., **Gomaa M. M.**, Kamal K. A., 2021, Applying of SP, DC-Resistivity, DC-TDIP and TDEM soundings in high saline coastal aquifer, *Heliyon*, Vol. 7, Issue 7, pp. 1-20.
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- ✿ Ramah M., Kotb A., Nasr A., **Gomaa M. M.**, Toni M., 2021, Near-surface structures elicitation from Aeromagnetic data of Northwest Nasser lake area, Egypt, *Egyptian Journal of Applied Geophysics*, Vol. 20, No. 1, pp. 69-82.
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- ✿ **Gomaa M. M.**, 2021, Modeling kaolinite electrical features under pressure using Pseudo Random Renormalization Group method at the audio frequency range, *J. Phys. and Chem. of Solids*, Vol. 152, pp. 1-7. ISSN: 0022-3697
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- ✿ **Gomaa M. M.**, Gobara H. M., 2020, Electrical and Structural Properties and Facile Synthesis of Alumina Modified by Metal Nanoparticles, *Interceram. - Int. Ceram. Rev.*, Vol. 69, Issue 4-5, pp. 64-71. ISSN: 00205214.
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- ✿ **Gomaa M. M.**, Eldiwany E. A., 2020, A new generalized membrane polarization frequency-domain impedance formula, *Journal of Applied Geophysics*, Vol. 177, pp. 1-16. ISSN: 0926-9851
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✿ **Gomaa M. M.**, 2020, Kaolinite under pressure at audio frequency range and its electrical features, *NRIAG Journal of Astronomy and Geophysics*, Vol. 9, No. 1, pp. 176- 189.

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✿ **Gomaa M. M.**, M. Elnasharty, E. Rizzo, 2019, Electrical properties speculation of contamination by water and gasoline on sand and clay composite, *Arabian Journal of Geosciences*, Vol. 12, pp. **.

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<https://doi.org/10.1016/j.heliyon.2019.e01248>

✿ Melegy A., **Gomaa M. M.**, Metwaly H. and Hassan S., 2019, Geochemical and electrical properties of some Heavy Metals in El-Tabbin area, Egypt, *Current Science International*, Vol., 8, Issue 01, pp. 101-108.

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✿ **Gomaa M. M.**, Abou El-Anwar E., 2019, Electrical, mineralogical, and geochemical properties of Um Gheig and Um Bogma Formations, Egypt, *Carbonates and Evaporites*, Vol. 34, pp. 1251–1264.

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✿ **Gomaa M. M.**, Metwally H., Melegy A., 2018, Effect of concentration of salts on electrical properties of sediments, Lake Quaroun, Fayium, Egypt, *Carbonates and Evaporites*, Vol. 34, Issue 3, pp. 721–729.

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✿ **Gomaa M. M.**, Hamzawy E. A., and Abdel Aziz D. A., 2017, Effect of TiO_2 and Ta_2O_5 additions on the electrical properties of $\text{Li}_2\text{CaAl}_4\text{Si}_4\text{O}_{16}$ glass-ceramic, *Advances in Applied Ceramics*, Vol. 116, No. 5, 260–266.

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✿ Kassab M., **Gomaa M. M.**, Lala A., 2017, Relationships between electrical properties and petrography of El-Maghara sandstone formations, Egypt, *NRIAG Journal of Astronomy and Geophysics*, Vol. 6, pp.162-173.

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✿ **Gomaa M. M.**, Kassab M., 2017, Forward and inverse modelling of electrical properties of some sandstone rocks using renormalisation group method, *Near Surface Geophysics*, Vol. 15 (5), pp. 487-498.

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✿ Abou El-Anwar E., **Gomaa M. M.**, 2016, Electrical, mineralogical, geochemical and provenance of Cretaceous black shales, Red Sea Coast, Egypt, *Egyptian Journal of Petroleum*, Vol. 25, pp. 323- 332.

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✿ **Gomaa M. M.**, Ibrahim S., Darwish H., 2015, Effect of $\text{SiO}_2/\text{B}_2\text{O}_3$ replacements on the structure, physicochemical and electrical properties of Bi_2O_3 -containing glasses, *SILICON*, Vol. 7, pp. 55-63.

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✿ **Gomaa M. M.**, Kassab M., El-Sayed N. A., 2015, Study of petrographical and electrical properties of some Jurassic carbonate rocks, north Sinai, Egypt, *Egyptian Journal of Petroleum*, Vol. 24 (3), pp. 343-352.

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<https://www.sciencedirect.com/science/article/pii/S1110062115000537>

✿ **Gomaa M. M.**, Kassab M., El-Sayed N. A., 2015, Study of electrical properties and petrography for carbonate rocks in the Jurassic Formations: Sinai Peninsula, Egypt, *Arabian Journal of Geosciences*, Vol. 8, Issue 7, pp. 4627-4639.

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✿ **Gomaa M. M.**, Abou El-Anwar E., 2015, Electrical and geochemical properties of tufa deposits as related to mineral composition in South Western Desert, Egypt, *Journal of Geophysics and Engineering*, Vol. 12, No. 3, pp. 292-302.

<http://iopscience.iop.org/article/10.1088/1742-2132/12/3/292>

✿ Hassan S. A., Gobara H. M., **Gomaa M. M.**, Khalil F. H., Mohamed R. S., 2015, Can microwave assisted in situ reduction of supported Pt nanoparticles be challenging with chemical method in controlling the dispersion profile-catalytic performance relationship, *RSC Advances*, Vol. 5, pp. 54460-54470.

<https://pubs.rsc.org/en/content/articlelanding/2015/ra/c5ra08116e#!divAbstract>

✿ Ibrahim S., **Gomaa M. M.**, Darwish H., 2014, Influence of Fe_2O_3 on the physical, structural and electrical properties of sodium lead borate glasses, *Journal of Advanced Ceramics*, Vol. 3, Issue 2, pp. 155-164.

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✿ Abou El-Anwar E., **Gomaa M. M.**, 2013, Electrical properties and geochemistry of carbonate rocks from the Qasr El-Sagha formation, El-Faiyum, Egypt, *Geophysical Prospecting*, Vol. 61, pp. 630-644.

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<https://link.springer.com/article/10.1007/s10854-012-0873-8>

✿ **Gomaa M. M.**, 2013, Forward and inverse modelling of the electrical properties of magnetite intruded by magma, Egypt, *Geophysical Journal International*, Vol. 194, Issue 3, pp. 1527-1540.

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✿ Shaltout A. A., **Gomaa M. M.**, Wahbe M., 2012, Utilization of standardless analysis algorithms using WDXRF and XRD for Egyptian Iron Ores identification, *X-Ray Spectrometry*, Vol. 41, pp. 355-362.

- ✿ Gobara H. M., **Gomaa M. M.**, 2009, II. Electrical Properties of Ni/Silica Gel and Pt/ γ -Alumina Catalysts in Relation to Catalytic Activity, *Petroleum Science and Technology*, Vol. 27, NO.14, pp. 1572-1591.
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- ✿ **Gomaa M. M.**, Abo-Mosallam H. A., Darwish H, 2009, Electrical and mechanical properties of alkali barium titanium alumino borosilicate glass-ceramics containing strontium or magnesium, *Journal of Materials Science: Materials in Electronics*, Vol. 20, No. 6, pp.507-516.
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Exhibition, Helsinki, 7 - 11 June 1999, 2-22 rock physics, European Association of Geoscientists & Engineers (EAGE), Helsinki, Finland.

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- ✿ **Gomaa M. M.**, Hussain S. A., El- Diwany E. A., and Bayoumi A. E., 1999, Renormalization group modeling of A. C. electrical properties of natural hematitic sandstone including texture effects, Society of Exploration Geophysicists (SEG), International Exposition and 69th Annual Meeting, Houston, Texas, Session: BH/RP 7.8, pp. 204-207.

<https://library.seg.org/doi/10.1190/1.1820974>

<https://library.seg.org/doi/abs/10.1190/1.1820974>

<https://www.onepetro.org/conference-paper/SEG-1999-0204>

- ✿ **Gomaa M. M.**, 1996, Frequency response study on iron ore bearing rock samples, M. Sc., Thesis, Cairo University, Egypt.

B) Proceedings of symposia

- ✿ Mostafa M., **Gomaa M. M.**, Elshenawy A., Basheer A., Kotb A., 2025, Impact of Clay Mineral Concentration on the Electrical Properties of Soil Composite Materials, Oral Presentation, 61st Annual Scientific Meeting, Egyptian Mineral Resources Authority, 9th Feb. 2025.
- ✿ Mostafa M., **Gomaa M. M.**, Basheer A., Kotb A., Elshenawy A., 2024, Monitoring Contamination in Soils Using Electrical Measurements as Indicators, 12th International Conference on the Geology of Africa (ICGA-12), Oral Presentation (#1018-ISCH), “Earth Sciences and Sustainable Development in Africa”, Assiut, Egypt, 14th to 15th, October 2024.
- ✿ Mostafa M., **Gomaa M. M.**, Elshenawy A., Basheer A., Kotb A., Using the Spectral Induced Polarization technique for estimating soil texture and moisture content, 2nd Annual International Science Conference (ISC2), Poster Presentation (#1018-ISCH), Faculty of science, Helwan university, Cairo, Egypt, 6th to 7th, November 2024.
- ✿ Ramah M., Kotb A., Nasr A., **Gomaa M. M.**, Toni M., 2022, Investigation of the groundwater potentiality using Geophysical techniques at North West Nasser Lake Area, Aswan, Egypt, The Eleventh International Conference on the Geology of Africa, 8-9 November 2022, Assiut-Egypt.
- ✿ **Gomaa M. M.**, and Sedeek H., 2019, Evaluation of heterogeneity and anisotropy of oxidized Pyrite crystals using electrical and mineralogical analyses, The 57th conference of the Geological Society of Egypt, 8 Dec. 2019, Ein Shams, Abbasia, Egypt.
- ✿ Invited talk entitled “Modeling electrical properties of some rock mixtures” on “Workshop of Bilateral Project (2016-2017)”, organized by CNR-Italy and National Research Centre (NRC)– Egypt, Dec. 2016.
- ✿ Kassab M., **Gomaa M. M.**, 2014, Study on electrical properties, petrography, depositional environment of sandstone samples and possible interrelations, the 4th Arab conference on astronomy and Geophysics (ACAG-4), 20th-23rd October 2014, National Research Institute of Astronomy and Geophysics (NRIAG), Cairo, Egypt.
- ✿ Arafa-Hamed T., **Gomaa M. M.**, Ghazala H., Araffa S. and El-Sisi K., 2016, The 3D Nature of Resistivity Surveys Based on Theoretical and Experimental Considerations, The 5th Arab Conference on Astronomy and Geophysics (ACAG-5), PG22, 17th-20th October 2016, National Research Institute of Astronomy and Geophysics (NRIAG), Cairo, Egypt.
- ✿ Gobara H. M., **Gomaa M. M.**, 2008, Electrical Properties of Ni/Silica Gel and Pt/ γ -Alumina Catalysts in Relation to Catalytic Activity, 2nd International Conference on New Trends in Chemistry and Their Applications (NTCA2), Egypt 13-15 February- 2008 (oral), Hurghada, Cairo, Egypt.
- ✿ Gobara H. M., **Gomaa M. M.**, 2008, Electrical Properties of Ni/Silica Gel and Pt/ γ -Alumina Catalysts in Relation to Catalytic Activity, 4th International Conference on Chemical and environmental engineering, 27-29 May, 2008 (oral), Part 1, Session I, chemical engineering (CE), CE-3, pp. 29-53, Military Technical College, Kobry Elkobbah, Cairo, Egypt.
- ✿ **Gomaa M. M.**, Darwish H, and Salman S.M., Nofel S., 2008, Development of some types of glass-ceramics using nanotechnology for some industrial and electronic applications, 1st International Forum and Exhibition on Economics of Mineral Resources in the Arab Countries, Processing, Manufacturing and Exporting, and organized by the Syndicate of Scientific Professions (ESSP) in cooperation with the Saudi-Egyptian Mining and Services Company (MEMS) and held at Azhar conference center, Nasr City, during the period January 1st – 3rd 2008, Cairo, Egypt.

- ✿ **Gomaa M. M.**, 2007, Electrical Properties of a Homogeneous Mixture of Hematite and Sand with Different Concentrations in the Frequency Domain, Paper presented at the 5th International Symposium on Geophysics (ISG-5), Tanta University, Egypt, Session G "Electric methods", Nov. 27-29, 2007.
- ✿ **Gomaa M. M.**, 2007, Electrical properties of rocks at room temperatures, 2nd International conference organized by the branch of Inorganic Chemical industries and mineral resources at the National Research Centre (NRC), Feb. 12-13, Cairo, Egypt.
- ✿ **Gomaa M. M.**, 2005, Dielectric constant and conductivity of partially saturated porous rocks, presented at the 2nd Annual meeting of Egyptian Society of Applied Petrophysics (ESAP), March 12-13, 2005, E19, Oral presentation in Session "Geoelectric and GPR", Cairo, **Egypt**.
- ✿ **Gomaa M. M.**, 2005, Effect of frequency and saturation on the electrical properties of hematitic sandstone sample, Paper presented at the 4th International Symposium on Geophysics (ISG-4), Tanta University, **Egypt**, Session I "Well logging and Petrophysics", Nov. 22-24, 2005.
- ✿ **Gomaa M. M.**, 2004, Interpretation of A. C. electrical properties of humid sand and effect of water content, presented at the 32nd International geological Congress (IGC), August 20-28, Poster presentation in Session "T25.04-rock Physics versus lithology", Florence, **Italy**.
- ✿ **Gomaa M. M.**, El- Dewany E. A., Hussain S. A., 2004, Frequency response study in some ore bearing rocks, presented at the 1st Annual meeting of Egyptian Society of Applied Petrophysics (ESAP), April 27, E6, Oral presentation in Session "Geoelectric and GPR", Cairo **Egypt**.
- ✿ **Gomaa M. M.**, Hussain S. A., El- Dewany E. A., and Bayoumi A. E., 1999, Electrical properties of heterogeneous systems (hematitic sandstone) and its interpretation, 2nd International Conference on Multivariate scattered data fitting, April 15-20, Puerto Vallarta, Jalisco, **Mexico**, 1999.
- ✿ **Gomaa M. M.**, Hussain S. A., El- Dewany E. A., and Bayoumi A. E., 1998, The effect of texture on the electrical properties of natural hematitic sandstone in the frequency domain, 1st International Symposium on Geophysics (ISG), Well logging and Petrophysics section, 8- 9/ 9/ 1998 Tanta, Egypt, pp. 336- 341.
- ✿ Bayoumi A. E., Hassaneen A. Gh., Marzouk M. B., Sharaf El- din, **Gomaa M. M.**, 1995, Interpretation of heterogeneous systems (hematitic sandstone) and its electrical properties, 30th annual meeting of the Egyptian Geophysical society (E.G. S.), March 14- 16, at the hall of the General Petroleum Company (GPC), Cairo, **Egypt**.

🌐Projects record🌐

- ✿ Project name (2023-2025):- local project at the "National Research Centre, **“Valorization of Agro and textile wastes for water-food-energy-health applications”**, Project No. 13010307
- ✿ Project name (5/9/2019→6/11/2021):- “Laboratory-based Simulation for Geoelectrical Resistivity Surveys”, project ID no 25349, submitted to the Science and Technology Development Foundation (STDF) within the framework of the “Research Support Grants”. STDF reviewer ID: 15333.
- ✿ Project name (21/3/2016-2018):- local project at the National Research Centre, **"Effect of soil pollution and geochemical characteristics on its productivity and its relation to electrical properties"** Project No. 11080101
- ✿ Project name (2016-2018):- local project at the "National Research Centre, **"Preparation and characterization of different types of lead free glasses for use in plasma display panels"** Project No. 11090301
- ✿ Project name (21/3/2016-21/11/2018):- cooperation between Academy of Scientific Research & Technology (ASRT) and Italy **"Geophysical techniques for monitoring hydrocarbon contamination phenomena using laboratory experiments"**
- ✿ Project name (2013-2016):- local project at the "National Research Centre, **"Preparation and studies of nonoxide glass (Chalcogenide)"**, Project No. 10070402.
- ✿ Project name (2013-2016):- local project at the "National Research Centre, **“Preparation and characterization of inorganic Nano sized materials for industrial applications”**, Project No. 10070102
- ✿ Project name (2009-2014):- In cooperation with Science and Technology Development Fund (STDF) and the Ministry of Scientific Research, Egypt, **“Novel ceramic/hybrid polymer Nano composites for minimized microelectronic capacitors of improved functionality”**, Project No. 732.

✿ Project name (2003-2006):- Joint science and technology project in cooperation between US – Egypt “**Geophysical electromagnetic prospecting for groundwater and economic minerals**”, Project No. ENV 3-002-003

✿ Project name (1998-2001):- local project at National Research Centre, “**Electronic marketing for scientific activities on the internet network**”

✿ Project name (1998- 2001):- local project at National Research Centre, “**Geophysical and mineralogical studies of natural resources (ore deposits, groundwater, oil and gas) in addition to some archaeological materials, Egypt.**”

✿ Project name (1995- 1998):- local project at National Research Centre, “**Electric, magnetic and petrophysical studies of some Egyptian rocks and ore deposits and their relation to mineralogical composition**”

✿ Project name (1992- 1995):- local project at National Research Centre, “**Magnetic, electric and petrophysical studies of some Egyptian rocks .from pre-Cambrian periods up to Tertiary**”

🌐Awards and Grants🌐

✿ HONORARY GOLD MEDAL, Awarded by The Organizing Committee of the Global Youth Summit on Net-Zero Future 2024, For a team for outstanding performance in the Climate x Food track of the Net-Zero Challenge of the Global Youth Summit On Net-Zero Future 2024.

✿ Earned the National Research Centre award of appreciation on the occasion of 60 years of the presence of the National Research Centre (2016).

✿ Earned the National Research Centre award of appreciation, for members with the high h-index point's outputs (2015).

✿ Earned the National Research Centre award of appreciation, for members with the highest points in the research outputs (2013).

✿ Earned the Egyptian State incentive award (Arab Republic of Egypt) in Geological Sciences from the Ministry of Higher Education and Scientific Research (2010).

<https://www.almasryalyoum.com/news/details/140924>

✿ Received the annual distinction award scholarship, Cairo University, for my grades during the undergraduate study (1984).

✿ A grant for a scholarship to M. Sc. degree from the Academy of scientific research and technology Ministry of Scientific Research (4/ 3/ 1993- 26/ 8/ 1995).

✿ The second rank in chess from the "**Members club of Research Institutes**" subsequent to the Ministry of Scientific Research.

🌐Teaching Experience🌐

✿ Teach Petrophysics course for the fourth grade of Geophysics Department, Faculty of Science, Helwan University (2010/2011, 2011/2012, 2012/2013).

✿ Teach Rock Mechanics course for the third grade of Geology Department, Faculty of Science, Helwan University (2010/2011, 2011/2012, 2012/2013).

✿ Teach Isotope geophysics course for the second grade of Geology Department, Faculty of Science, Helwan University (2012/2013).

✿ Teach Geological mapping course for the third-year students, Faculty of Girls, Ain-Shams University (98/97, 2001/2002).

🌐Reviewer Activity🌐

✿ Technical Program Committee member for the **International Conference on Optoelectronic Technology and Communication Engineering (OTCE2025)**, July 25-27, 2025, Wuhan, China.

<http://otceconf.com/Committee/>

✿ Editor in Chief **and** Technical Program Committee member for the **13th Annual International Conference on Material Science and Environmental Engineering (MSEE2025)**, 25th July to 27th July, 2025, Wuhan, China.

<http://www.msee2025.com/?op=committees>

✿ Technical Program Committee member for the **2nd International Conference on Electronic, Electrical and Information Technology (EEIT2025)**, November 21-23, 2025, Wuhan, China.

<http://www.eeitconf.com/Committee/>

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- ✿ Technical Program Committee for The International Conference Optoelectronic Materials and Advanced Manufacturing (OMAM), 23-25 May, 2025 Wuhan, China.
<http://omamconf.com/Committee/>
- ✿ Editorial board member for the Global Journal of Human-Social Science.
<https://socialscienceresearch.org/index.php/GJHSS/about/editorialTeam>
- ✿ Section Editor (Special Issue) for the **Open Environmental Research Journal**.
<https://openenvironmentalresearchjournal.com/editorial-board.php>
- ✿ Editorial board member for the **2nd International Conference on Optical Communication and Optoelectronic Technology (OCOT 2025)**, July 18-20, 2025, Changsha, China.
<http://www.ocot2024.com/?Committee/>
- ✿ Mentor team on the AuthorAID website.
<https://www.authoraid.info/en/mentoring/contact/33264/>
- ✿ Editorial board member for the **Journal of Environmental and Earth Sciences** (11 Jun 2024).
<https://journals.bilpubgroup.com/index.php/jees/about/editorialTeam>
- ✿ Technical Program Reviewer, IMAGE 2024 - International Meeting for Applied Geoscience & Energy, 26th – 29th August 2024, Houston, Texas (1 paper).
<https://image2024.abstractcentral.com>
- ✿ Editorial board member for the IgMin Research-STEM a Multi-disciplinary **Journal in the area of Earth Science**, ISSN: 2995-8067 (7 March 2024).
<https://www.igminresearch.com/members/mohamed-mahmoud-gomaa>
<https://www.igminresearch.com/editors/science/earth-science>
https://www.igminresearch.com/editors/science/earth-science_soil-science
<https://www.igminresearch.com/editors/science/soil-science>
https://www.igminresearch.com/editors/science/earth-science_physical-chemistry
https://www.igminresearch.com/editors/science/soil-science_earth-science
<https://www.igminresearch.com/editors/science/physical-chemistry>
<https://www.igminresearch.com/editors?page=2>
<https://www.igminresearch.com/editors?page=3>
<https://www.igminresearch.com/editors?page=8>
- ✿ Editorial board member for the **2nd International Conference on Mechatronics and Intelligent Control (ICMIC2024)**, September 20-22, 2024, Wuhan, Hubei, China.
<http://www.icmicconf.com/Committee/>
- ✿ Editorial board member for the **3rd International Conference on Mathematics, Modeling and Computer Science(MMCS2024)**, August 16-18, 2024, Wuhan, China.
http://www.mmcs-conf.com/?about_1/
- ✿ Participating in the **EAGE Mentoring Programme 2022-2023**.
- ✿ Editorial board member for the Annual scientific conference "Technology transfer: innovative solutions in Social Sciences and Humanities" journal (27/9/2023).
<https://journal.eu-jr.eu/ttissh/about/Gomaa>
<http://journal.eu-jr.eu/ttissh/about/editorialTeam>
- ✿ Editorial board member in Probe-Soil Science Journal, Collection Soil Physical and Chemical Properties Section (21/6/2023).
<https://probe.usp-pl.com/index.php/SS/about/editorialTeam>
<https://probe.usp-pl.com/s.php?jid=78>
- ✿ Technical Program Reviewer, IMAGE 2023 - International Meeting for Applied Geoscience & Energy, 28th August - 1 September 2023, Houston, Texas (2 papers).
<https://image2023.abstractcentral.com>
- ✿ Associate editor of Journal of Applied Geophysics (Cairo).
<https://jag.journals.ekb.eg/journal/editorial.board#edb19718>
- ✿ Academic editorial board member for the Academia Engineering (14 Jan. 2023).
https://www.academia.edu/journals/3/academia_engineering/about/editorial_board
- ✿ Mentor and Honorary Board member at Egypt scholars incorporation Program (18 December 2022).
<https://egyptscholars.org/mentoring/honorary-board-2020/>

- ✿ Editorial Board Member for the 10th Annual International Conference on Material Science and Environmental Engineering (MSEE 2022), November 25-27, 2022, Nanjing, Jiangsu, China (5/12/2022).
<http://www.msee2022.com/?op=committees>
- ✿ Editorial Board Member for the 8th Annual International Workshop on Materials Science and Engineering (IWMSE 2022), May 13th to 15th, 2022, Wuhan, Hubei, China (1-12-2022).
<http://www.iwmse2022.net/?op=committee>
- ✿ Editorial Board Member (Geology) for the Journal of Basic and Applied Sciences
<https://setpublisher.com/pms/index.php/jbas/about/editorialTeam>
- ✿ Volunteer Reviewer Board of Applied Sciences, Hydrology, Physics
https://susy.mdpi.com/reviewer/list/recruiting_reviewers_manuscripts
- ✿ Reviewer of a M. Sc. degree in Geology (Geophysics and seismisity) “High-resolution seismic survey to determine the site characteristics of the industrial zone of Gabal Ataqa, the western edge of the Gulf of Suez, Egypt”, Geological department, Faculty of Science, Helwan university, 27 May 2024.
- ✿ Reviewer of a Ph. D. degree in Geology (Petroleum Geology)“Low resistivity pay evaluation and hydrocarbon assessment in hammam faraun member, north morgan field, gulf of Suez, Egypt” Azhar Uni., 12 Aug. 2023.
- ✿ Reviewer of a M. Sc. degree in Geology (Geophysics, Petroleum and Hydrogeology Program) “Subsurface geology and hydrocarbon potential of the Miocene sequence at Amer field, Gulf of Suez, Egypt” 22 May 2022
- ✿ Reviewer of a M. Sc. in Geophysics, Assistant Researcher/Mostafa Mohamed Mohamed Maawad (Helwan University) entitled “Applications of Low Frequency Measurement Techniques to Delineate the Hydrogeological Characteristics of Sandy Samples” 26 March 2022
- ✿ Reviewer of a M. Sc. in Geophysics, Assistant Researcher/Mohamed Ramah (Helwan University) entitled “Evaluation of the Nubian Sandstone Aquifer using Electrical Resistivity and Electromagnetic methods at North West Nasser Lake Area, Aswan, Egypt” 17 May 2021
- ✿ Reviewer of a M. Sc. degree in Geology (Geophysics, Petroleum and Hydrogeology Program)“3D Reservoir Modelling and Characterization of Sequoia Field, Offshore Nile Delta, Egypt” 2 Jan. 2021
- ✿ Reviewer of a Ph. D. degree in Geology (Petroleum Geology)“Characterization of the Geologic Setting and Modeling of the Reservoir Rock of the Cretaceous Succession in Edfu Oil Field, Offshore Area, Gulf of Suez, Egypt” 2 Dec. 2020.
- ✿ Reviewer of a M. Sc. degree “Aquifer Characterization of West El-Minia Area, Egypt, through the Forward and Inverse Modeling of the DC Resistivity and Transient Electromagnetic Data”19 Aug. 2020
- ✿ Reviewer of a M. Sc. degree “Effect of Nano-materials to Induce Fractures within sandstone and carbonate reservoirs of Abu Roash C and F members, at Badr El-din Area, North Western Desert, Egypt” 19 Nov. 2019
- ✿ Reviewer of a Ph. D. degree “Application of spectral induced polarization technique to delineate some hydrogeological characteristics of saturated and unsaturated sandstones” 26 Oct. 2019
- ✿ Reviewer of a M. Sc. degree “Stratigraphical and Petrophysical studies on the Upper Cretaceous rocks at Gebel El Duwi, Eastern Desert, Egypt” 30 Sep. 2019
- ✿ Reviewer of a MSc. degree “Predicting permeability in un-cored wells using hydraulic flow units technique in JG field, Abu El Gharadig basin, Western Desert, Egypt” 29 Oct. 2018
- ✿ Reviewer of a M. Sc. degree “Reservoir characterization and depositional setting of Abu Madi formation in West Al Khilala field, Nile delta, Egypt” 14 Mar. 2018
- ✿ Jury Committee of Egypt International Science and Engineering Fair (ISEF), Egypt (30th Dec. 2024).
- ✿ Jury Committee of Egypt International Science and Engineering Fair (ISEF), Egypt (25th Dec. 2024).
- ✿ Jury Committee of Egypt International Science and Engineering Fair (ISEF), Egypt (23th Dec. 2024).
- ✿ Jury Committee of Egypt International Science and Engineering Fair (ISEF), Egypt (17th and 19th Dec. 2024).
- ✿ Jury Committee of Egypt International Science and Engineering Fair (ISEF), Egypt (15th Dec. 2024).
- ✿ Jury Committee of Egypt International Science and Engineering Fair (ISEF), Egypt (12th Dec. 2024).
- ✿ Jury Committee of Egypt International Science and Engineering Fair (ISEF), Egypt (10th Dec. 2024).
- ✿ Jury Committee of Egypt International Science and Engineering Fair (ISEF), Egypt (24th Nov. 2024).
- ✿ Jury Committee of Egypt International Science and Engineering Fair (ISEF), Egypt (20th Nov. 2024).

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- ✿ Jury Committee of Egypt International Science and Engineering Fair (ISEF), Egypt (14th Nov. 2024).
 - ✿ Technical program committee (TPC) for the International Conference on Diversified Education and Social Development [DESD2024], November 8th -10th, 2024, Nanjing, Jiangsu, China.
<http://www.desd2024.com/?op=committees>
 - ✿ Jury Committee of Qalyubia National Youth Innovators Competition for Pre-University Students 2024, Qalyubia Governorate, Egypt (23rd July 2024).
 - ✿ Jury Committee of Egypt International Science and Engineering Fair (ISEF 2024, Online for all Egypt), Egypt (2024).
 - ✿ Jury Committee of Qalioubia Science and Engineering Fair (GSEF 2024), El-Obour region, Egypt (8th December 2024).
 - ✿ Jury Committee of Giza Science and Engineering Fair (GSEF 2023), 6th October, Egypt (13th December 2023).
 - ✿ Jury Committee of Giza Science and Engineering Fair (GSEF 2023), Omranya, Egypt (6th December 2023).
 - ✿ Editor-in-Chief of Journal of Applied Surface Science (JASS).
<https://www.opastpublishers.com/>
<https://www.opastpublishers.com/editor-info/mohamed-3571>
 - ✿ Jury Committee of Egypt International Science and Engineering Fair (ISEF 2023, for all Egypt), Egypt (12th March 2023).
 - ✿ Jury Committee of Egypt International Science and Engineering Fair (ISEF 2023, Online for all Egypt), Egypt (8th March 2023).
 - ✿ Jury Committee of Egypt International Science and Technology Fair (EISTF 2023), Cairo, Egypt Governorate, Egypt (24th-26th Feb. 2023).
 - ✿ Jury Committee of Egypt International Science and Engineering Fair ISEF 2023, Sharkia, Egypt (6th Feb. 2023).
 - ✿ Jury Committee of Egypt International Science and Engineering Fair ISEF 2023, Cairo, Egypt Governorate, Egypt (29th -31th Jan. 2023).
 - ✿ Jury Committee of Egypt International Science and Engineering Fair ISEF 2022, West Shobra, Egypt (20th Dec. 2022).
 - ✿ Jury Committee of ISEF 2022 (Omrana Fair), Egypt (29th November 2022).
 - ✿ Committee member for the Global Meet on Metamaterials and Nanophotonics (GMMETA2023), Lisbon, Portugal, September 14-16, 2023 (Sep. 23, 2022).
<https://primemeetings.org/2023/metamaterials-nanophotonics/committee>
 - ✿ Editorial Board Member for the Journal of Library of Clinical and Medical Case Reports (LCMCR) (Sep. 13, 2022).
<https://www.lcmcasereport.com/editorial-board.php>
 - ✿ Editorial Board Member for the **Journal of Oil and Gas Research Reviews (JOGRR)** (Sep. 9, 2022).
<https://www.opastpublishers.com/>
<https://opastpublishers.com/journal/journal-of-oil-and-gas-research-reviews/editorial-board>
<https://www.opastpublishers.com/editor-info/dr-mohamed-gomaa-1901>
 - ✿ Member for the National Committee for the "Conservation of Nature and Natural Resources" from the Academy of Scientific Research and Technology (15 July 2022).
 - ✿ Formal general secretary for the geological branch, Egyptian syndicate of scientific professions, Giza branch (2020).
 - ✿ Member for the National Committee for the "Earth Nature and Earth Standards" from the Academy of Scientific Research and Technology (1st Marsh 2020).
 - ✿ Formal general secretary for the geological branch, Egyptian syndicate of scientific professions (8/2019).
 - ✿ Researcher. Life Star Ambassador (April 26, 2022).
 - ✿ Technical Program Committee/Reviewer for the 2nd International Conference on Advanced Energy, Power and Electrical Engineering (AEPEE2022), March 6-7, 2022, China, (Feb. 16, 2022).
<http://www.aepee2022.org/com.html>
 - ✿ Jury Committee of Qalyubia Science and Engineering Fair QSEF 2022 (Online Fair), Qalyubia Governorate, Egypt (8th January 2022).

- ✿ Jury Committee of International Science and Engineering Fair ISEF 2022, Cairo Governorate, Egypt (8th - 10th January 2022).
- ✿ Jury Committee of International Science and Engineering Fair ISEF 2022 (Online Fair), Egypt Governorate, Egypt (7th - 9th March 2022).
- ✿ **General Chair** of 2022 International Workshop on Advanced Materials, Energy and Environment Science (AMEES2022), January 16-17, 2022, Changsha, China.
<http://www.amees2022.org/com.html>
- ✿ Technical Program Committee of 7th International Conference on New Material and Chemical Industry (NMCi 2022), November 16-18, 2022, Zhuhai, China (30 Nov. 2021).
<http://www.icnmci.org/2022/Committee.aspx>
<http://www.icnmci.org/Committee.aspx>
- ✿ Judge of 2021 **NASA's international space applications Benha challenge**, 2-3 Oct., 2021.
<https://2021.spaceappschallenge.org/challenges/>
- ✿ Editorial Board Member of Journal of Modern Polymer Chemistry and Materials (31/8/2021).
<http://www.innovationforever.com/aboutjournal/?code=JMPCM&journalcode=JMPCM&journalid=1339748319989231625&tab=Editorial%2520Board%2520Members>
- ✿ Section Editor (Basic Sciences) for the Egypt Scholars Journal (ES Journal), Egypt Scholar Organization, California, USA.
<https://journal.egyptscholars.org/about-es-journal/>
- ✿ Technical Program Committee, reviewer and Scientific Committee for the 4th International Conference on Energy and Power Engineering (EPE2021), September 17-18, 2021, Guangzhou, China.
<http://www.4th-epe.org/com.html>
- ✿ Mentor judge at 2021 SACNAS National Diversity in STEM (2021 SACNAS NDiSTEM) Digital Virtual Conference, October 25 – 29, 2021
<https://sacnas.secure-platform.com/a/>
- ✿ Technical Program Committee/Reviewer for the 4th Annual International Conference on Energy Development and Environmental Protection (EDEP2021), July 23-25, 2021, Guiyang, Guizhou, China, China, (Apr 7, 2021).
<http://www.edep2021.org>
<http://www.edep2021.org/default.aspx?op=committee>
- ✿ Technical Program Committee/Reviewer for the 3rd International Conference on Energy, Power and Environmental System Engineering (ICEPESE2022), May 29-30, 2022, Shanghai, China.
<http://www.3rd-icepese.com/com.html>
- ✿ Mentor to 2 students for the Publons Academy Practical Peer Review Training Course on the 1st of June 2021 (1/6/2021).
- ✿ Technical Program Committee member of 2021 International Conference on Mathematics, Modeling, Simulation, Optimization and Computation (MMSOC2021), Chengdu, China, June 29-30, 2021 (12/5/2021).
<http://www.mmsoc2021.org>
- ✿ Reviewer of Academic exchange information Centre (AEIC) (26/5/2021).
- ✿ Technical program committee (TPC) for the **International Conference on Power and Energy Engineering (DZPower'21)**, 6th - 7th September 2021, Algeria.
<https://dzenergy.org/dzpower/>
- ✿ Organizing and Technical Program Committee for the 2nd International Conference on Chemical Engineering and Catalysis (ICCEC-2021), November 17-18, 2021, Miami, USA, (Apr 7, 2021).
<https://phronesisonline.com/chemical-engineering-conference/>
- ✿ Jury Committee of ISEF 2021 (Sharqia Fair), Egypt (22th December 2021).
- ✿ Jury Committee of ISEF 2021 (Underage competition Fair), Egypt (14th, 18th March 2021).
- ✿ Grand Awards Judge at the Virtual Regeneron International Science and Engineering Fair (**ISEF 2023**) category of Earth and Environmental Sciences (May 13-19, 2023 Kay Bailey Hutchinson Convention Center in Dallas).
<https://judges.societyforscience.org/>
- ✿ Grand Awards Judge at the Virtual Regeneron International Science and Engineering Fair (**ISEF 2022**),

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- category of Earth and Environmental Sciences (May 3-7, 2022).
<https://judges.societyforscience.org/>
- 🏆 **Grand Awards Judge** at the Virtual Regeneron International Science and Engineering Fair (ISEF 2021) (May 3-7, 2021 during judging and May 16-21, 2021 during Virtual ISEF 2021).
<https://judges.societyforscience.org/>
- 🏆 Jury Committee of CSEF (National Cairo Science and Engineering Fair), Cairo Region; Technological Development Department, Cairo Education Directorate, (14-18 Feb 2021).
- 🏆 Technical Program Committee/ Reviewer for the 2021 International Workshop on Environmental Science and Renewable Energy Engineering (ESREE2021), April 11-12, in Beijing, China (Jan 20, 2021).
<http://www.esree2021.org/com.html>
- 🏆 Technical Program Committee as a Reviewer (International Scientific Committees) for the 2021 4th International Conference on Modeling, Simulation and Optimization Technologies and Applications (MSOTA2021), Dec. 17-18, 2021 in Xiamen, China (Jan 5, 2021).
<http://www.4th-msota.org/com.html>
- 🏆 Member for the Scientific Committee for the 3rd Conference for the Arabian Journal of Geosciences (CAJG), 2 -5 November 2020, Sousse, Tunisia
<https://cajg.org/index.php?p=committees>
- 🏆 Editorial board member for the Research and Innovations in Physical Sciences RIPS (28 May 2020).
<https://www.2rsa.org/journals-category?code=5db4844246480&category=Research+and+Innovations+in+Physical+Sciences+&catid=23>
- 🏆 Editorial board member of Ceramic Sciences and Engineering Journal (12 May 2020).
<https://systems.enpress-publisher.com/index.php/CSE/about/editorialTeam>
<https://systems.enpress-publisher.com/index.php/CSE/about/editorialTeamBio/14811>
<https://editorial-welcome.nature.com/>
- 🏆 Member for the National Committee for the "Earth Physics" from the Academy of Scientific Research and Technology.
- 🏆 Judge of "6th Egypt Science and Engineering Fair", Cairo science and engineering fair, held at Advanced Technical School in East Nasr City, Cairo, 28-30/1/2020.
- 🏆 Volunteer at Egypt Scholars Inc. (Jan 19, 2020) <https://egyptscholars.org/?s=Mahmoud+Gomaa>
mohamed.m.gomaa@egyptscholars.org
<https://login.microsoftonline.com>
- 🏆 Technical Program Committee as a Reviewer (International Scientific Committees) for the **2020 3rd International Conference on Modeling, Simulation and Optimization Technologies and Applications (MSOTA2020)**, Nov. 22-23, 2020 in Beijing, China (Jan 16, 2020).
<http://www.msota2020.org/com.html>
- 🏆 Technical Program Committee as a Reviewer for the 2nd International Conference on Electronical, Mechanical and Materials Engineering (ICE2ME2020), Dec 20- Dec 21, 2020, Xiamen, China, (Jan 16, 2020).
<http://www.ice2me2020.org/>
<http://www.wikicfp.com/cfp/servlet/event.showcfp?eventid=97316©ownerid=154689>
- 🏆 Editorial board member of **ES Journal of Agriculture and Current Research** (Jan 11, 2020).
https://escientificlibrary.com/agriculture/Editorial_Board.php
<http://sciedtech.eu/login-4/>
- 🏆 Point of contact for the **African Physics Newsletter** (23 Dec 2019).
- 🏆 Reviewer of Earth Science Research journal
<http://www.ccsenet.org/journal/index.php/esr/editor>
- 🏆 Organizing Committee Member in the "**International Conference on Physics and Networks**" (7 Dec 2019).
<https://ice2020physics.com/organizing-committee-member/mohamed-gomaa/2076>
<https://physicsworld.com/event/international-conference-on-physics-and-networks-icpn-2020/>
- 🏆 Editorial Board Member of **Advance in Agriculture Technology & plant sciences (AATPS)**, (27 Oct. 2019).
<https://academicstrive.com/AATPS/editorial-board.php>
- 🏆 Editorial Board Member of **Probe – Petroleum Engineering**, (17 Oct. 2019).

<http://probe.usp-pl.com/index.php/PE/about/editorialTeam>

✿ Editorial Board Member of **Gnome: Journal of Crop Technology and Agricultural Science**, (10 Oct. 2019).

https://www.enlivenarchive.org/crop-technology-and-agricultural-science/index.php?content=editorial_board

✿ Guest Editor for the special issue "**Advances in Groundwater Resources, Solute Transport, Pollution, Monitoring and Sustainable Development**", Earth Sciences, Science Publishing Group, USA

<http://www.sciencepg.com/specialissue/specialissueinfo?specialissueid=267002&journalid=267>

✿ Guest Editor for the special issue "**Sedimentary Mineral Deposits and Hydrocarbon Accumulations in the Middle East and Africa**", Earth Sciences, Science Publishing Group, USA

<http://esjournal.org/sinfo/161018>

<http://www.sciencepublishinggroup.com/specialissue/specialissueinfo?specialissueid=161018&journalid=161>

✿ Editorial Board Member of Research and Application of Materials Science(17July 2019).

<http://www.viserdata.com/journal/2661-4464>

✿ Reviewer for the 2nd Conference for the Arabian Journal of Geosciences (CAJG), 25-28 November 2019, Sousse, Tunisia

<https://www.cajg.org/index.php?p=committees>

✿ Editorial Board Member of SCIREA Journal of Mine Engineering.

<https://www.scirea.org/journal/EditorialBoard?JournalID=44000#3057>

✿ Editorial Board Member of SCIREA Journal of Materials (24 April 2019).

<https://www.scirea.org/journal/EditorialBoard?JournalID=43000#3057>

✿ Editorial Board Member of Marine and Environment journal (24April 2019).

<http://ojs.bbwpublisher.com/index.php/gb/about/editorialTeam>

✿ Judge of "Egypt Science and Engineering Fair" held in Mubarak City for Science and Technology, 6th of October, Cairo, 8/4/2019.

✿ Scientific Research Consultant for **Egypt the dream foundation for development and innovation(2019)**.

✿ Editorial Board Member of Geoscience Bulletin journal (20February 2019).

<http://ojs.bbwpublisher.com/index.php/gb/about/editorialTeam>

✿ A jury of Cairo Science and Engineering Fair (CSEF), 22 to 24 December 2018, Advanced Technical School in Nasr City, Cairo, Egypt.

✿ A jury of Cairo Science and Engineering Fair (CSEF), 21 December 2018, Saidiya School, Giza, Egypt.

✿ Editorial Board Member of International Research Journal of Applied Sciences.

<http://www.scirange.com/journal-detail/1/editorial-board-member>

<https://scirange.com/journal/irjas/editorial-board-member>

<https://scirange.com/sci-178>

✿ Editorial Board Member in **Applied Physics (AP)**, International Technology and Science Publications (ITS) (18 July 2018).

<http://www.itspoa.com/?thread-1067-111.html>

✿ Editorial Board Member in **Acta Scientific Agriculture** journal (9 July 2018).

<https://www.actascientific.com/ASAG-EB.php>

<https://www.actascientific.com/ASAG-EB.php#popup1>

<https://actascientific.com/ASAG-EB.php>

https://www.actascientific.com/editorial_popup.php?editor_id=1865

✿ Associate Editor of **Triple A Research Journal of Multidisciplinary (JMD)** (26April 2018).

<http://jmd.triplearesjournal.org/editorial-board/>

<http://triplearesjournal.org/jmd/editorial-board/>

✿ Judge for the **FIRST LEGO League Egypt Championship (FLL)** (17-2-2018 and (2, 3, 4-3-2018)).

✿ Editorial Board Members of **Electronics Science Technology and Application journal(ESTA)** (21 December 2017).

<http://esta.usp-pl.com/index.php/esta/about/editorialTeam>

✿ Associate editor for the **International Journal of Petrochemical Science & Engineering (IPCSE)**, eISSN: 2475-5559 (7 December 2017).

<http://medcraveonline.com/IPCSE/editorial-board>

✿ The technical program committee for the **7th Global Conference on Materials Science and Engineering (CMSE 2018)**, November 1st - 4th, 2018, Xi'an, Shaanxi, China.

<http://www.cmseconf.org/Committee.html>

✿ Editorial Board Member of **Global Journal of Earth Science and Engineering (GJESE)** (13 November 2017).

<http://www.avantipublishers.com/editorial-board-member-gjese/>

✿ The technical program committee for the **4th International Conference on Wireless Communication and Sensor Network (WCSN2017)**, 15-17 December 2017, Wuhan, China.

<http://www.wcsn2017.org/?op=committee>

✿ The technical program committee for the **3rd Annual International Conference on Computer Science and Mechanical Automation (CSMA 2017)**, 10-12 November 2017, Wuhan, Hubei, China.

<http://www.csma2017.org/?op=committee>

✿ Reviewer team member for the **International Journal of Materials Science and Applications (IJMSA)**.

<http://www.sciencepublishinggroup.com/journal/peerreviewers?journalid=123>

<http://membership.sciencepublishinggroup.com/mmmmsgomaa>

✿ Judge for the **FIRST LEGO League Egypt Championship (FLL)** (14, 21, 22-4-2017).

✿ Editorial Board Member for the **SCIREA Journal of Astronomy** (5 April 2017).

<http://www.scirea.org/journal/EditorialBoard?JournalID=16000#3057>

✿ Editorial Board Member for the **SCIREA Journal of Geosciences** (5 Mar 2017).

<http://www.scirea.org/journal/EditorialBoard?JournalID=17000#3057>

✿ Editorial Board Member for the **SCIREA Journal of Physics** (27 Feb. 2017).

<http://www.scirea.org/journal/EditorialBoard?JournalID=14000#3057>

✿ The technical program committee for the **6th Global Conference on Materials Science and Engineering (CMSE 2017)**, October 24th - 27th, 2017, Beijing, China.

<http://www.cmseconf.org/chinese/Committee.html>

✿ The technical program committee of 2017 International Conference on mechanics, Civil engineering and building material (MCEBM2017).

<http://www.mcebm2017.org/?op=committee>

✿ The technical program committee of 2017, 2nd International Conference on Advanced Electronic Science and Technology (AEST2017), (13 March 2017).

<http://www.aest2017.org/?op=committee>

✿ Jury Committee of Intel ISEF (Intel Science and Engineering Fair), Luxor, Egypt (3-6th March 2017).

✿ Jury Committee of Intel ISEF (Intel Science and Engineering Fair), Cairo Region Final Fair, Educational City, 6th of October, (20- 23 Feb 2017).

✿ Editor/publication chair of Association for Medical Education in Europe (AMEE-2017).

<http://www.amee2017.org/com.html>

✿ Co-chairman of a Poster Session of "**1st International Conference on the Future of Energy, Geology and Environment (EGE)**", National Research Centre (NRC), Cairo, Egypt, 3rd-4th April 2016.

✿ Editorial board member/peer reviewer of World Journal of Applied Physics (WJAP) (6th May 2016).

✿ Editorial board member/peer reviewer of Frontiers in Applied Physics (FAP).

<http://www.sciencepublishinggroup.com/journal/editorialboard?journalid=200>

✿ Reviewer for the 5th International Conference on Materials Science and Engineering (CMSE 2016).

✿ Reviewer for the 5th International Conference on Civil Engineering and Urban Planning (CEUP 2016).

✿ Editorial Manager of Environmental Earth Sciences (ENVE) (25 February 2016).

✿ Member of Technical Program Committee of International Conference on Advanced Material Science and Mechanical Engineering, March 20-21, 2016, Bangkok, Thailand (AMSME2016) (3rd Aug. 2016).

✿ Jury Committee of Intel Science Competition Arab World, Alexandria, Egypt 2015 (17th-19th Dec. 2015).

✿ Jury committee of Intel ISEF 2015 (Intel Science and Engineering Fair), Cairo final fair, Educational City, 6 October, Egypt, 2015. (IMSEF) (16-19th, February 2015).

✿ Jury Committee of Giza local Gallery of Science and Engineering **GSEF** 2015/2016 (12th Dec. 2015).

✿ Editor of Comparative Journal of Engineering and Mathematics statistics (COJEMS) (25th October 2015).

✿ Reviewer for the 4th International Conference on Civil Engineering and Urban Planning (CEUP2015) (11th

September 2015).

✿ Editorial board member for the Global Scholars Journal of Physical and Applied Sciences (GSJPAS) (1st September 2015).

✿ Editorial board member for the Journal of Materials Sciences and Applications (18th Dec. 2014).

✿ Editorial board member for the International Journal of Geophysics and Geochemistry (18th Dec. 2014).

✿ Editorial board member for the American Association for Science and Technology (AASCIT) Physics (18th Dec. 2014).

✿ Editorial board member of **Premier Publishers Journal** (19th October 2014).

✿ Jury committee of **Intel-Misir El Kheir Science and Engineering Fair (IMSEF)**(23-25th February 2014).

✿ Editorial board member of **Standard Journal of Petroleum and Gas Exploration (SJPGE)** (9 Aug.2014).

✿ Editorial board member of **Journal of Physics and Astronomy Research (JPAR)** (4 July 2014).

✿ Reviewers' team member for the **4th Global Conference on Materials Science and Engineering (CMSE)**, Shanghai, China, October 20th-23rd, 2014 (26 May 2014).

✿ Editorial Board member of **International Journal of Geology and Mining (IJGM)**.

<https://premierpublishers.org/ijgm/editorial-board>

✿ Review Editor for the **International Research Journal of Geology and Mining (IRJGM)** (3 June 2014).

<http://www.interestjournals.org/irjgm/editorial-board>

✿ Editorial board member for the Interlink Continental Journal of Social Science and Humanities (ICJSSH) (16 April 2014).

✿ Associate Editor of **Basic Research Journal of Engineering Innovation (BRJENG)** (20 March 2014).

✿ Editorial board member of **Global Scholars Journal of Geology and Mining Research (GSJGMR)** (10 January 2014).

✿ Editorial board member of **International Journal of Global Studies (IJGS)** (17 May 2013).

✿ Editorial board member of **Prudence Journal of Pharmacology and Pharmacy (PJPP)**(21 May 2013).

✿ Associate Editor for the **Journal of Petroleum and Gas Exploration Research (JPGER)** (1 August 2012).

✿ Editorial board member for the **Global Advanced Research Journal of Geology and Mining Research (GARJGMR)**(12 November 2012).

✿ Desktop reviewer for the **International Union for Conservation of Nature (IUCN) for the World Heritage nominations** (25 June 2012).

✿ **Professional reviewing service:-**

- Journal of Materials Science: Materials in Electronics (69 papers).
- Arabian Journal of Geosciences (37 papers).
- Materials Science and Engineering: B (29 papers).
- Materials Chemistry and Physics (23 papers).
- Geophysics (15 papers).
- Journal of Non-Crystalline Solids (13 papers).
- Journal of Alloys and Compounds (9 papers).
- 4th International Conference on Modeling, Simulation and Optimization Technologies and Applications (MSOTA2021)(8 papers).
- 2021 International Workshop on Environmental Science and Renewable Energy Engineering (ESREE2021) (7 papers).
- Springer Nature Applied Sciences (SNAS) (6 papers).
- Clays and Clay Minerals (5 paper).
- NRIAG Journal of Astronomy and Geophysics (4 papers).
- Journal of Applied Geophysics (4 papers).
- National Diversity in STEM Conference 2021 (4 papers).
- 2021 National Diversity in STEM (NDiSTEM) Conference (4 papers).
- Science for the Total Environment (4 papers).
- The Journal of Geophysics and Engineering (3 papers).

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- Silicon(3 papers).
 - Journal of Asian Ceramic Societies (3 papers).
 - International Workshop on Advanced Materials, Energy and Environment Science (AMEES2022) (3 papers).
 - 4th International Conference on Energy and Power Engineering (EPE2021) (3 papers).
 - 3rd Global Conference on Materials Science and Engineering (CMSE 2014) (3 papers).
 - Colloids and Surfaces A: Physicochemical and Engineering Aspects (3 papers).
 - 2017 2nd International Conference on Advanced Electronic Science and Technology (AEST2017, 3 papers).
 - 3rd International Conference for the Arabian Journal of Geosciences (CAJG), 2 -5 November 2020, Sousse, Tunisia (3 papers).
 - 2nd International Conference for the Arabian Journal of Geosciences (CAJG), 25-28 November 2019, Sousse, Tunisia (3 papers).
 - 4th Annual International Conference on Energy Development and Environmental Protection (EDEP2021)(3 papers).
 - Marine Geophysical Research (2 papers).
 - 3rd International Conference on Energy and Power Engineering (EPE2020), 20-21, September 2020, Shanghai, China (2 papers).
 - Journal of Physics and Astronomy Research (2 papers).
 - International Research Journal of Geology and Mining (2 papers).
 - Journal of Geography and Geology (2 papers).
 - <https://www.ccsenet.org/journal/index.php/jgg/editor>
 - Carbonates and Evaporites (2 papers).
 - Journal of Physics and chemistry of solids (2 papers).
 - Society of Exploration Geophysicists (SEG) 91st Annual International Meeting, Denver, CO, 26th Sep –1st Oct 2021 (2 papers).
 - Electrochimica Acta (2 paper).
 - Kuwait Journal of Science (2 or 3 papers).
 - <https://www.morressier.com/profile/prof-dr-mohamed-mahmoud-gomaa/6141a3cb9617a3001a2e2c22>
 - 4th International Conference on Mechanical, Electric and Industrial Engineering MEIE2021, May 22-24, 2021, Kunming, China, <http://www.icmeie.com> (2 papers).
 - 3rd International Conference on Energy, Power and Environmental System Engineering (ICEPESE2022), May 29-30, 2022, Shanghai, China (2 papers).
 - ECS Journal of Solid State Science and Technology (1 paper).
 - Project by the Ministry of Innovative Development of Uzbekistan (1 paper).
 - Journal of Geophysical Research: Solid Earth(1 paper).
 - Exploration Geophysics (1 paper).
 - Geophysical Journal International (1 paper).
 - Near Surface Geophysics (1 paper).
 - Geological Society of Egypt (1 paper).
 - Ground water (1 paper).
 - Global Journal of Earth Science and Engineering (1 paper).
 - Geotechnical and Geological engineering(1 paper).
 - Environmental Quality Management (1 paper).
 - Academia Letters (1 paper).
 - Journal of Electromagnetic Waves and Applications Progress in Electromagnetic Research (PIER & JEMWA) (1 paper).
 - Science Journal Publication(1 paper).
 - Frontiers in Applied Physics (FAP) (1 paper).
 - Science journal of civil engineering & architecture (1 paper).
 - International journal of biotechnology research (1 paper).

- International Journal of Geophysics (1 paper).
- Earth Science Research(1 paper).
- Earth Sciences Research Journal (1 paper).
- Society of Exploration Geophysicists (SEG) Annual Meeting, Houston, Texas, 11-16 October 2020(1 paper).
- Journal of Asian Ceramic Societies (1 paper).
- 3rd International Conference on Modeling, Simulation and Optimization Technologies and Applications (MSOTA2020) (1 paper).
- 10th Annual International Conference on Material Science and Environmental Engineering (MSEE 2022) (1 paper).
- Member of the evaluation committee for the Nahdet El Mahrousa's Young Innovators' Awards (YIA) Program.
- Journal of Materials Sciences and Applications.
- International Journal of Geophysics and Geochemistry.
- American Association for Science and Technology (AASCIT) Physics.

Extracurricular Activities

- ✿ One of the **organizing boards** for the “**Workshop of Bilateral Project (2016-2017)**”, organized by CNR-Italy and National Research Centre (NRC)– Egypt, and attendance with an invited talk “**Modeling electrical properties of some rock mixtures**”, Dec. 2016.
- ✿ One of the **organizing board and technical committee** for the “**1st International Conference on the Future of Energy, Geology and Environment (EGE)**”, organized by Geological Department, National Research Centre (NRC), 3rd -4th April 2016, Cairo, Egypt.
- ✿ Jury Committee of the management board election for the private insurance fund at the National Research Centre, 17th November 2016.
- ✿ Jury Committee of the management board election for the private insurance fund at the National Research Centre, 25th November 2015.
- ✿ One of the **organizing board and technical committee** for the “**Materials Science and Engineering workshop**”, organized by **Inorganic Chemical Industries and Mineral Resources Division, National Research Centre (NRC) & Materials Science and Engineering Department, Egypt- Japan University of Science and Technology (E-JUST)**, 5th March 2014, National Research Centre (NRC), Cairo, Egypt.
- ✿ One of the **organizing board and technical committee** for the **3rd International Conference on Inorganic Chemical Industries and Mineral Resources under the title “Recent Trends and Advanced Applications”**, Feb. 1-2, 2009, National Research Centre (NRC), Cairo, Egypt.
- ✿ One of the **organizing board and technical committee** for the **5th International Conference of Applied Geophysics** organized by the Egyptian Society of Applied Petrophysics (ESAP), Feb. 24-26, 2008, National Research Centre (NRC), Cairo, Egypt.
- ✿ One of the **organizing board and technical committee** for the **1st The First International Forum and Exhibition on Economics of Mineral Resources in the Arab Countries, Processing, Manufacturing, and Exporting**, organized by the Syndicate of Scientific Professions (ESSP) in cooperation with the Saudi-Egyptian Mining and Services Company (MEMS), Azhar conference center, Nasr City, 1st – 3rd January 2008, Cairo, Egypt.
- ✿ Member of the Working Group for the Nobel model simulation Prize in 2007- College of Engineering- Helwan University.
- ✿ One of the **organizing board and technical committee** for the **4th International Conference of Applied Geophysics** organized by the Egyptian Society of Applied Petrophysics (ESAP), Feb. 18-20, 2007, National Research Centre (NRC), Cairo, Egypt.
- ✿ One of the **organizing board and technical committee** for the **2nd International conference under the title “Future aspects”**, Feb. 12-13, 2007, organized by the branch of Inorganic Chemical industries and mineral resources, National Research Centre (NRC), Cairo, Egypt.
- ✿ One of the **organizing board and technical committee** for the **3rd International Conference of Applied Geophysics** organized by the Egyptian Society of Applied Petrophysics (ESAP), Marsh 18-20, 2006,

National Research Centre (NRC), Cairo, Egypt.

- Preparing a **workshop** at Helwan University entitled "Interpretation of electrical properties of hematitic sandstone", 5-12-2005.
- One of the **organizing board** and **technical committee** for the **2nd International Conference of Applied Geophysics** organized by the Egyptian Society of Applied Petrophysics (ESAP), Marsh 14-15, 2005, National Research Centre (NRC), Cairo, Egypt.
- One of the **organizing board** and **technical committee** for the **1st Annual Scientific conference under the title "Inorganic Chemistry in the service of the industry"**, May 5- 6, 2004, and organized by the branch of Inorganic Chemical industries and mineral resources and held at the National Research Centre (NRC), Cairo, Egypt.
- One of the organizing board and technical committee for the **1st Annual meeting of the Egyptian Society of Applied Petrophysics (ESAP), April 27, 2004**, National Research Centre (NRC), Cairo, Egypt.
- Member of the Local Council district for the center of Giza.
- Shared in **founding the Central internet unit (CIU)** of the **National Research Centre (NRC)**, Cairo, Egypt. I worked in the training of the staff and users for the (CIU).
- Shared in **establishing the Egyptian Society of Applied Petrophysics (ESAP)** at the **National Research Centre (NRC)**, Cairo, Egypt since (2000) year.

👉 Training Skills Overview 👈

- Attending the Ideation camp from Sunday, January 16, 2022 to Wednesday, January 16, 2022 organized by the National Research Centre, E-Club, TICO, Giza, Egypt.
- Attending the International Winter School on Bioinformatics (**Eg-CompBio**: "Empowering computational biology and bioinformatics research in Egypt"), 27th - 31st of December 2019, at Nile University, Giza, Egypt.
- Take a condensed training entitled "**LabView Core 1 & Core 2**" organized by Electronics Research Institute (ERI), in the period from 8th/1/2017 to 12th/1/2017.
- Preparing and teaching** training for the following courses: -

Name	Period
Drawing Geophysical and Geological maps	8-11-2016 to 17-11-2016
Geographic information Systems (GIS)	3-1-2010 to 14-1-2010
Using a computer in drawing Geophysical and Geological maps	13-4- 2008 to 1-5-2008
	24-2- 2008 to 6-3-2008
	8-7- 2007 to 12-7-2007 (condensed).
	7-9- 2006 to 3-9-2006
	10-12- 2005 to 28-12-2005
	14-3-2005 to 4-4-2005
Internet and Networks	4/2/2001 to 30/5/ 2001 م
Internet	18/3/2001 to 18/4/ 2001 م

- Participated in African-Asian Rural Development Organization (AARDO-FERO) **Online** Training programme on "**Innovation for Sustainable and Resilient Agriculture: The Korean Experience**", held during 22-25 August 2022
- Take a training entitled "**SmartSeis ST-24**" organized by Geosciences Consulting Group Company in the period from 1st -30th of January, 2016.
- Take a training entitled "**Seismograph-24 with borehole geophone**" organized by Optoscient company, 2016.
- Take a training entitled "**Proton Magnetometer "Geometrics" Model G-857AX**" organized by Optoscient Company, 2016.
- Take a training entitled "**TOT training of trainers**" organized by National Research Centre in the period from 12 to 15 June 2016.
- Take a condensed training entitled "**Scientific Research Leaders**" organized by National Research Centre in the period from 6th to 10th May 2016.

- ✿ Take a condensed training entitled "**LabView Programming**" organized by Metrology Engineering and Calibration Center (MECC), held at National Research Centre in the period from 1st to 12th November 2015 (50 training hours).
- ✿ Participated in a **training workshop "Climate Change Impacts on Coastal Hydrodynamics"**, organized by Alexandria Research Centre for Adaptation (ARCA), 12th May 2016, Cecil Hotel-Alexandria.
- ✿ Participated in a **training workshop "Climate change Update: IPCC 5th Assessment Report"** organized by Alexandria Research Centre for Adaptation (ARCA), 6th May 2014.
- ✿ Take a condensed training entitled "**Photoshop**" organized by National Research Centre in the period from 22nd April - May 6th, 2014.
- ✿ Take a training entitled "**Chemical safety and security training**" organized by National Research Centre sponsored by the united states department of state, in the period from 21- 22th, 2012.
- ✿ Take a condensed training entitled "**SPSS**" organized by National Research Centre in the period from 29th April - 30th May 2014.
- ✿ Take a condensed training entitled "**Network and Internet**" organized by National Research Centre in the period from 7th January- 7th February 2001.
- ✿ Take a condensed training entitled "**Studying of the petrophysical properties of rocks**" organized by National Research Centre in the period from 12th February – 1st March 2000.
- ✿ Take a condensed training entitled "**Libraries and services beneficiaries**" organized by National Research Centre in the period from 21th - 27th October 1996.
- ✿ Take a condensed training entitled "**IELTS**" organized by British Council Center in the period from 10th April- 30th June 1996.
- ✿ Take a training entitled "**3D STUDIO MAX**" organized by National Research Centre in the period from 6th November- 24th December 1999.
- ✿ Take a training entitled "**VISUAL BASIC**" organized by National Research Centre in the period from 28th September- 2nd November 1999.
- ✿ Take a training entitled "**AutoCAD 12**" organized by National Research Centre in the period from 15th September- 27th October 1999.
- ✿ Take a training entitled "**Arabic writing and indexing through the windows program**" organized by National Research Centre in the period from 4th August - 8th August 1996.
- ✿ Take a training entitled "**Information Services and methods of research**" organized by Information Technology Center, Academy of Scientific Research and Technology in the period from 20th April- 24th April 1996.

Professional memberships

- ✿ Member of Egypt Scholars organization (ES) since (5 February 2020).
- ✿ Member of the American Physical Society (APS) since (28 November 2016), ID: 61236630.
- ✿ Member of the American Association for Science and Technology (AASCIT) since (2014).
- ✿ Member of the Egyptian Society of Applied Petrophysics (ESAP) since (2000).
- ✿ Member of the American Cultural Center or the (American central Library in Cairo) since 1995.
- ✿ Member of the Egyptian Geophysical Society (EGS) since 1989.
- ✿ Member of the Society of Exploration Geophysicists (SEG) since 1999.
- ✿ Member of the European Association of geoscientists and Engineers (EAGE) since 2006.
- ✿ Member of the International Union of Geological Sciences (IUGS).
- ✿ Member of IAMScientest team.

Scientific school

- ✿ Supervisor of Ph. D. Degree, Assistant Researcher/ Mostafa Moawaed Mohamed Mohamed (Helwan University) entitled "Laboratory and field applications of Electrical Resistivity and Induced Polarization techniques for near surface investigations" (2023).
- ✿ Supervisor of M. Sc. Degree, Assistant Researcher/ Mostafa Moawaed Mohamed Mohamed (Helwan University) entitled "Applications of Low Frequency Measurement Techniques to Delineate the Hydrogeological Characteristics of Sandy Samples" (2020-19/11/2020).

- 📌 Supervision of M. Sc. Degree, Assistant Researcher/Mohamed Ramah (Helwan University) entitled “Evaluation of the Nubian Sandstone Aquifer using Electrical Resistivity and Electromagnetic methods at North West Nasser Lake Area, Aswan, Egypt”, (2021)
- 📌 Supervision of M. Sc. Degree, Assistant Researcher/Khloud Emad Ramadn (Mansoura University) entitled “Laboratory-based simulation for Geoelectrical resistivity surveys”, (4/10/2016- not awarded).
- 📌 Noha>>>> NRIAG
- 📌 Supervision of M. Sc. Degree, Assistant Researcher/Ashraf Nabil Ismail (Helwan University) entitled “Detection of contamination after reclamation at Helwan suburb using geophysical survey”, (24/7/2006- not awarded).



Contact information of referees

- 1) Ahmed Ismail, PhD
Assistant Professor, Geophysics, Boone Pickens School of Geology, 105 Noble Research Center, Stillwater, Ok 74078-3031, Office: 405-744-9264, Fax: 405-744-7841
ahmed.ismail@okstate.edu
- 2) Perparim Alikaj, Polytechnic University of Tirana, Albania
alikalp@albbmail.com, alikalp88@gmail.com
- 3) Prof. Esam El Diwany, Electronics Research Institute, Head of Microwave dept.,
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- 4) Hussein Darwesh, Glass Research Dept., National Research Centre, hussein25@yahoo.com
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