



Samar Fares Ahmed Mhanna

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RESEARCHGATE:

https://www.researchgate.net/profile/Samar_Mhanna

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<https://scholar.google.com/citations?user=IAAKuYkAAAAJ&hl=en>

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Profile

- Lecturer of Experimental Nuclear Physics
- Assistant lecturer of nuclear, radiation and engineering physics
- Basic science department, Zagazig Higher Institute of Engineering & Technology
- Muslim
- Single

EDUCATION

- **Ph.D. degree**, Experimental Nuclear physics, Physics department, Zagazig University, *May 2020*
Thesis title: *Study the similarities and differences between the effect of neutrons on organic and inorganic materials.*
- **Pre-Phd**, Nuclear physics, Physics Department, Zagazig University, *2016/2017, grade : Excellent*
- **Master degree**, Nuclear & Radiation Physics, Physics Department, Zagazig University, *Nov 2015*
Thesis title: *Evaluation of Radiation Dose Released from Ceramic and Marble Tiling Used in Egypt.*
- **Pre-master**, Nuclear physics, Physics Department, Zagazig University, *2012, grade : Excellent*
- **Bachelor's degree**, Physics Department, Zagazig University, *2011, grade: Very good*

WORK EXPERIENCE

- Lecturer of Experimental Nuclear, Radiation and Engineering physics, Zagazig Higher Institute of Engineering & Technology, *Nov 2020 to present*
- Assistant lecturer of Nuclear, Radiation and Engineering physics, Zagazig Higher Institute of Engineering & Technology, *Nov 2015 to Oct 2020.*
- Demonstrator of Engineering physics (part time), Higher Technological institute of Engineering and Technology, *10th of Ramadan, 2014*

PUBLICATION LIST

- 1- Elmaghraby, E.K. Abdelaal, S, Abdelhady, A.M., **Samar Fares**, Salama, S., Mansour, N.A. (2020). *Experimental determination of the fission-neutron fluence-to-dose conversion factor*. Nuclear Instruments and Methods in Physics Research Section A, 949, 1 January 2020, 162889. Doi:10.1016/j.nima.2019.162889.
- 2- Elmaghraby, E.K. Abdelaal, S, Abdelhady, A.M., **Samar Fares**, Salama, S., Mansour, N.A. (2019). *Correspondence and difference between gamma-ray and neutron irradiation effects on organic materials in marine environment*", In: Egyptian Journal of Aquatic Biology & Fisheries Volume 23(5), pages 1-16. Doi: 10.21608/ejabf.2019.63408.
- 3- Elmaghraby, E.K. Abdelaal, S, Abdelhady, A.M., **Samar Fares**, Salama, S., Mansour, N.A. (2020). *"UV-Visible study of the alterations in optical properties of CR-39 nuclear track detector induced by high doses of neutron irradiation"*. In 15th international conference on Environmental sciences.
- 4- Nabil M., Hassan and **Samar Fares** (2016)" *Evaluation of radiological hazards associated with the uses of marble and ceramic as decorative building materials in Egypt*". Journal of Radioanalytical and Nuclear Chemistry, Volume 310, Issue 3, (1373-1380).
- 5- Nabil M., Hassan, Mansour, N. A., Fayez-Hassan, M. and **Samar Fares** (2017) *"Assessment of radiation hazards due to exposure to radionuclides in marble and ceramic commonly used as decorative building materials in Egypt"*. Journal of Indoor and Built Environment, Volume 26, Issue 3, (317-326).

SKILLS

Languages

Arabic: Mother tongue

English: very good

French: good

Computer skills

Very good handling with Microsoft office

(Word, Excel, PowerPoint software).

Science skills

- Very good background in nuclear and radiation physics
- Very good background in engineering physics
- Ability to conduct computational analysis for nuclear data by various scientific soft wares.
- Experience in experimental work in physics laboratory

Other skills

- Very good teaching skills.
- Fast learning and doing accurate work.
- Ability to work in teamwork and/or independently.

HOBBIES

- Reading scientific books
- Singing