

Curriculum Vitae



- **Name:** Ebrahim Mohamed Sedqy
- **Title:** Dr.
- **Department:** Basic Sciences
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A) Academic Qualifications:

- Bachelor's Degree in Physics University: Zagazig Year: 2010
- Master's Degree in Nuclear Physics University: Zagazig Year: 2015
- Ph.D. in Experimental Nuclear Physics University: Zagazig Year: 2021

B) Academic promotions:

- Demonstrator, Date: 9/2012.
- Assistant Lecturer, Date: 6/2015.
- Lecturer, Date: 6/2021.

C) Scientific Merit:

- Google Scholar: [E.M. Sedqy](#)
- Scopes ID: [57219625298](#)
- Citations: 103. h-index: 3. i10-index: 2.
- Orcid –N: [0000-0002-2049-0620](#)

D) Scientific Activities:

1: Membership of Professional Organizations and Scientific Societies

- Physics Demonstrator, Faculty of Engineering, Sinai University (from September 2012 to 2015).
- Physics Lecturer Assistant, Faculty of Engineering, Sinai University (from September 2015 to May 2021).
- Explaining Laboratory Experiments and Tutorials of (Physics (1), Physics (2), and electrical material) Courses.
- Physics Group Senior, Faculty of Engineering, Sinai University (from 2015 up to May 2021).
- Physics Lecturer, Faculty of Engineering, Sinai University (from Spring 2021, Currently).
- Lecturer of An Elective Course Entitled “Communication & Presentation Skills”, Faculty of Engineering, Sinai University (from Spring 2021, Currently).
- General Supervisor on the Physics Laboratories (from June 2021, Currently).
- Examination control member, Faculty of Engineering, Sinai University (from Fall 2018, Currently).
- Examination control Chairman for Electrical Engineering Department, Faculty of Engineering, Sinai University (from Fall 2022, Currently).
- Quality Assurance Unit Vice manager, Faculty of Engineering, Sinai University (from Spring 2021, Currently)

2: Training Courses/workshops:

- Training Course in the Origin Lab Program.
- Training Course in Infrared (**IR**) spectrometer.
- Training Course in **UV-Vis** spectrophotometer.
- Training Course in Natural Occurring Radioactive Materials (**NORMs**).
- Training Course in Solid State Nuclear Track Detections (**SSNTDs**).

3: Conferences, Seminars and Workshops:

- Project Name: Radiation Physics, It was about "Radiation in Our Environment", It was under Supervision Associate Professor Nabil Eldebawi (2009-2010), My grade at this Project was Excellent.
- Project Name: Hyper Pure Germanium Detectors (HPGe), It was about studying Natural Radioactivity maintained naturally in materials, It's Origin and it's Detection, It was under Supervision Professor Mohamed Fayez-Hassan (2012-2013), at Atomic Energy Authority in Egypt (AEAE).
- Project Name: Alpha Guard, It was about Studying Natural Radioactivity (Radon Gas Concentrations in Samples and it's mechanism for detections, It was under Supervision Associate Professor Nabil Mohamed Hassan (Nabil M. Hassan) (2012-2013), at Zagazig University in Egypt.



- ~~Project Name:~~ Elemental Analysis for Materials that included X-ray Florescence (XRF), X-Ray Diffraction (XRD), Infra-Red (IR) Analysis and Thermal Analysis that described The behavior of Materials under the Effect of Temperature. Also the mechanism of each Analysis, It was under Supervision Professor Nassif A. Mansour (2012-2013), at Zagazig University in Egypt.

- Project Name: Solid State Nuclear Trace Detectors and it's main role in the detection Process in Nuclear Physics, It was under Supervision Professor Abdalla Saad (A.F. Saad) (2016-2017), at Zagazig University in Egypt.

- Project Name: Modifications in The Optical, Structure and Thermal Properties of CR-39 Nuclear Track Detectors induced by Thermal Annealing and The effect of Thermal Annealing on The registration Properties of The charged particles with Low and High Ionization Rates, It was under Supervision Professor Abdallah Fathy Saad (A.F. Saad) and Associate Professor Rania Khalil (2016-2017) at Zagazig University in Egypt.

Project Name: working and Analysis by Optical, Structure and Thermal Instruments:

- UV-Visible spectrometer.
- FT-IR spectrometer.
- Thermo-gravimetric Analysis TGA.
- X-ray Diffraction.
- Scanning Electron Microscope SEM.
- Atomic Force Microscopy AFM.

It was under Supervision Professor Abdalla Fathy Saad (A.F. Saad) and Dr.

Mahmoud Soliman Dawood (2016-2017) at Zagazig University in Egypt.

4: Teaching Scopes:

Physics (Engineering & Dentistry), Electrical Materials, Communication & Presentation Skills.

E) Scientific Publications:

-International journals:

- Assessment of natural radioactivity in fertilizers and phosphate ores in Egypt, Journal of Taibah University for Science 10 (2), 296-306, 2016.
- Polyallyl diglycol carbonate (PADC) polymer as a UVC dosimeter: A new technique combining thermal and UVC treatments, Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, 485, 41-49, 2020.

Effect of UVC radiation on the optical properties of thermally treated CR-39 polymer films: A new approach for the use of CR-39 as an optical dosimeter, Radiation Physics and Chemistry, 179, 109253, 2021.

- The irradiation impacts of high gamma doses on optical features and degradation of Makrofol DE 1-1, Ceramics International, 49 (3), 4964-4970, 2023.
- The structure, optical basicity, ligand field strength and shielding parameters of alkali/alkaline borate glasses doped with V_2O_5 , Optical Materials, 142, 114078, 2023.
- Influence of ZnO on the structural, optical, ligand field and antibacterial characteristics of sodium borosilicate glasses containing minor Cr_2O_3 additions, Physica Scripta 98 (5), 055933, 2023.
- Studies of chemical bonds loss and optical modifications of CR-39 caused by gamma rays, Radiation Physics and Chemistry, 218, 111537, 2024.

F) Quality Assurance in Higher Education:

- **Reviewer/Editor**
- **QA Trainer**
- **QA Managing Positions**
- **Training Attended**

G) Skills

- Language Skills: good.
- Computer Skills: good.
- Presentation skills: good.