

Romany Gerges

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EDUCATION

Faculty of Science, Ain Shams University, Egypt

M.Sc. in material science , magnetism

ongoing

Thesis: Controlling elastic, magnetic and optical properties of $Mn_{0.7}Zn_{0.3}Fe_2O_4/CdxZn_{1-x}Fe_2O_4$; $x = (0-0.5)$ core/shell nanostructures via lattice matching .

Supervisors:

Prof. Dr. Adel Abdul Sattar Al-Saadani— Professor of Solid-State Physics, Department of Physics.

Prof. Dr. Hesham Mohamed El-Sayed— Professor of Solid-State Physics, Department of Physics.

Dr. Ahmed Mohammed Faramawy — Physics Department, Faculty of Science, Ain shams University.

Faculty of Science, Ain Shams University, Egypt

Pre-master in material science

November 2023

(solid states, electrodynamics, Quantum Mechanics, Electromagnetism, metrology, Atomic Physics)

Faculty of Science, Ain Shams University, Egypt

B.Sc. in material science

June 2018

GPA: 80 (100 scale), very good with honors and first in class.

RESEARCH EXPERIENCE

Faculty of Science, Ain Shams University, Egypt.

Master's degree

Present

- Working on enhancing the optical and magnetic properties of core/shell ferrite materials.
- Preparation of nanoferrite particles by different methods to obtain small particle sizes.
- Characterize the samples by using X-ray, FTIR, DRS, VSM, TEM, and EDX.

Military Technical College

Researcher at the Research Center

Mars 2020 – October 2021

- Successfully study and work on supercapacitors.
- development of the digester of fossil fuels.

Main laboratories of the Armed Forces

X-ray laboratory specialist

November 2019

- Characterize and analyze X-ray samples.

TEACHING EXPERIENCE

Military Technical College

Teaching Assistant

magnetism.

April - October 2021

Cairo, Egypt

Faculty of Science, Ain Shams University

Teaching Assistant

Properties of Matter Lab (2022).

October 2021-Present

Cairo, Egypt

optics and electronic lab (2022, 2023).

Magnetism tutorial (2023).

solid state tutorial (2024).

thermodynamics tutorial (2025).

TECHNICAL STRENGTHS

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|---------------------------|--|
| Languages | Arabic (Native), English (6.5 TOIFL Score) |
| Computer Languages | Matlab |
| Analysis programs | Origin, VNA, Maud, Image j, and Xpert high score |

CERTIFICATES AND AWARDS

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|---|-------------|
| Ain Shams's 11th International Conference Attendance Certificate | 2023 |
| Crystallography workshop at the National Research Center | 2023 |
| International publishing course for knowledgeable researche (asu -hub) | 2022 |
| Training course on using the e-learning system | 2020 |
| Nano science and technology workshop at the (BUE) | 2018 |

PUBLICATION

Controlling elastic, magnetic and optical properties of core/shell nanostructures via lattice matching 2025

Doi of paper ([link of paper](#))