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## Zain Elabdeen Ali Mohamed

### Education

2020– present Assiut University, Assiut, Egypt

#### Master of Science in Physics

- Specialization: *nanomaterial science*
- Supervisor: Prof. *Mohamed almokhtar Mohamed*

2015– 2019: Assiut University, Assiut, Egypt

#### Bachelor of Science in Physics and chemistry.

- Relevant Coursework: *Mathematics*
- Overall GPA: 3.67/4.00 (*very good with honour*)
- Rank: *first*

### Teaching Experience

2020– present **Demonstrator**

Physics department, Faculty of Science, Assiut University

- Demonstrate labs for Physics and Engineering undergraduate students
  - Mechanics
  - Thermodynamics and Heat
  - Electricity

### Research Experience

I started working in my research point on topological photonic crystal and their applications, I am investigated a design for glucose sensing for commercial and medical applications. And now work on design and verified structure for gas sensing.

### Skills

- **Programming:** *C ++, MATLAB, COMSOL – Multiphysics.*
- **Text processing software:** *Microsoft office (Word, Excel, PowerPoint)*
- **Data analysis:** *Origin, MATLAB.*
- **Languages:** *Arabic (native) – English (very good) – French (intermediate)*

### Activities/ Awards

July 2019 - South Egypt Cancer Institute (Radiotherapy Training)

### Memberships

- Society of Physics students, Physics department, Assiut University

### Publications



## High tunability and sensitivity of 1D topological photonic crystal heterostructure

Sayed Elshahat, [Zain Elabdeen A. Mohamed](#), Mohamed Almokhtar, Cuicui Lu

### Conferences

The Fifth International and Conference for Young Scientists Basic and Applied Science , Assiut university, Egypt.

- **Presentation** " high sensitivity gas sensor of one dimension topological photonic crystal ".

### References

Prof. Dr. Ahmed Mostafa Amry, Physics Department, Assiut university

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