

# FAHAD NAIF ALMUTAIRI

[f\\_almutairi@su.edu.sa](mailto:f_almutairi@su.edu.sa) | (+966) 50 519-9281 | Alkharj, Saudi Arabia | [Web of Science](#) | [Google Scholar](#) | [LinkedIn](#)

## EDUCATION

### Doctor of Philosophy in Electronic Engineering

2021

Bangor University, UK

**Thesis:** "Effect of Chemically Modified Transport Layers on Photovoltaic Behavior of P3HT: IC70BA- Based Organic Solar Cell"

### Master of Science in Physics

2012

King Saud University, KSA

**Thesis:** "Analysis of Soil Around Riyadh City Using Laser Induced Breakdown Spectroscopy (LIBS)"

### Bachelor of Degree in General Physics

2001

King Saud University, KSA

## SKILLS

- |                         |                        |                     |
|-------------------------|------------------------|---------------------|
| ● Homer Pro, PV F-Chart | ● System Advisor Model | ● Data Analysis     |
| ● PV Planner, Solar Pro | ● Time Management      | ● Microsoft Office  |
| ● Scientific Writing    | ● Critical Thinking    | ● Native in Arabic  |
| ● Manual Dexterity      | ● Communication        | ● Fluent in English |

## TEACHING EXPERIENCE

### Shaqra University, Physics Lecturer, Thadig

2013 – Present

- Plan and present practical learning experiences for all students
- Develop course materials and teach translational motion, thermodynamics, rotational motion and fluids
- Document tools used for physics concept demonstrations
- Arrange seminars with experts in the field, to enhance students' interests in physics
- Participate in meetings and perform on staff committees as needed
- Arrange practical work sessions at the laboratory

### Ministry of Education, Physics Teacher

2002 – 2013

- Taught physics classes to a diverse array of students of varying ages and abilities
- Planned and organized hands-on activities that encourage active student participation, involvement, and teamwork
- Maintained an orderly, peaceful, and positive learning environment
- Fostered and encouraged critical thinking and analysis about engineering & physics

## PUBLICATIONS

- **F.N. Almutairi**, W.A. Farooq, A.E.M. Khater, A.S. Al Dwayyan, M.S. Alsali and M. Atif, "Elemental analysis of fertilizer using laser-induced breakdown spectroscopy" Optics and Spectroscopy, Vol.112, No.6, pp. 874-880 (2012)
- **F.N. Almutairi**, W.A. Farooq, Z. Alahmed, "Analysis of Rocks around Capital of Kingdom of Saudi Arabia Using Laser Induced Breakdown" Optics and Spectroscopy, Vol.115, No.2, PP. 241-248 (2013)
- **F.N. Almutairi**, W. Aslam Farooq, Walid Tawfik and Zeyad A. Alahmed "Qualitative Analysis and Plasma Characteristics of Soil from a desert area using LIBS technique" Journal of the Optical Society of Korea, Vol.17, No. 6, PP. 548- 558 (2013)
- **F.N. Almutairi** W Tawfik, WA Farooq, ZA Alahmed "Monitoring of Inorganic Elements in Desert Soil Using Laser-induced Breakdown Spectroscopy" Lasers in Engineering (Old City Publishing), (2015)

## RESEARCH INTERESTS

- Material characterization
- Materials
- Nanomaterials
- Thin films and nanotechnology
- Thin film deposition
- Optics & photonics
- XRD analysis