

CURRICULUM VITAE

PERSONAL INFORMATION

Name Surname: Kholoud ELMABRUK

Date of Birth: 30/12/1984

EDUCATION

High School: (1998-2001) Al qudus High School, Gharian/Libya, (88.2/100)

Bachelor: (2001-2006) Electrical and Electronics Engineering Department “Communication”, Aljabal Algarbi University, Gharian/Libya, (79.22/100).

Master Degree: (2010-2012) Electronic and Communication Engineering Department/ Çankaya University, Ankara/Turkey, (3.81/4.00).

Thesis Title: (Design of a jammer for spread spectrum signal using MATLAB simulation)

Supervisor: Prof. Dr. Halil T. Eyyuboğlu.

Ph.D. Degree: (2013-2019) Electrical and Computer Engineering Department/ Ankara Yıldırım Beyazıt University, Ankara/Turkey, (3.86/4.00).

Thesis Title: (Development of a Time-Domain Spectroscopy System for the Characterization of Terahertz Photoconductive Antenna and Antenna Arrays)

Supervisor: Assoc. Prof. Dr. Mehmet Ünlü.

Ph.D. Degree: (2013-2020) Electronic and Communication Engineering Department/ Çankaya University, Ankara/Turkey, (3.81/4.00).

Thesis Title: (The Effect of Beam Parameters on Vortex Beams Propagating in Atmospheric Turbulence)

Supervisor: Prof. Dr. Halil T. Eyyuboğlu.

Postdoctoral Research Fellow: (2019-2020) Electrical and Electronic Engineering Department/ TOBB University of Economics and Technology, Ankara/Turkey

TeraNano Research Group

WORK EXPERIENCE

- (July 2020-...) Assistant Professor at the electrical and electronics engineering department, Sivas University of Science and Technology
- (2008-2009): Teaching and research assistance at the electrical and electronics engineering department, Aljabal Algarbi University, Garian/ Libya.

Courses:

- Basics of electronic circuits.
 - Analog electronic circuits.
 - Signals and systems.
 - MATLAB basics.
- 2006-2007: trainee at OXY petroleum ltd, Tripoli/ Libya.

PUBLICATIONS

Journal Publications - Peer-review:

- **Kholoud Elmabruk**, Halil Eyyuboglu, “Analysis of Flat-Topped Gaussian Vortex Beam Scintillation Properties in Atmospheric Turbulence”. *Optical Engineering*. 58(6). DOI: 10.1117/1.OE.58.6.066115. 2019
- **Kholoud Elmabruk**, Kazim Demir, Asaf Bahzit Sahin, Hakan Altan, Mehmet Unlu, “Time-Domain Characterization of the Radiation Pattern of the Terahertz Photoconductive Antennas”. *Journal of Infrared, Millimeter, and Terahertz Waves*. DOI: 10.1007/s10762-019-00588-y. 2019
- Ali Haider, Petro Deminskyi, Mehmet Yilmaz, **Kholoud Elmabruk**, Ibrahim Yilmaz, Necmi Biyikli, “Long-range ordered vertical III-nitride nanocylinder arrays via plasma-assisted atomic layer deposition”. *J. Mater. Chem. C*. (6) 6471-6482. 2018

International Conference Publications:

- ***Kholoud Elmabruk***, Kazim Demir, Asaf Bahzit Sahin, Hakan Altan, Mehmet Unlu, “Radiation Pattern Characterization of Terahertz Photoconductive Antennas Using Time-Domain Spectroscopy System”. 2018 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, Boston, MA, USA. 8-13. (2018).
- Ali Haider, Petro Deminskyi, ***Kholoud Elmabruk***, Sevde Altuntas, Ibrahim Yilmaz, Fatih Buyukserin, Necmi Biyikli, “Low-Temperature Conformal Growth of Ordered III-nitride and Metal-Oxide Hollow Nanocylinder Arrays for Optoelectronics and Photocatalytic”, MRS Fall Meeting, Boston, Massachusetts, 27 November – 2 December (2016).
- Ibrahim Yilmaz, ***Kholoud Elmabruk***, Ali Haider, Sevde Altuntas, Fatih Buyukserin, Necmi Biyikli, “Temperature-dependent photoluminescence characteristics of plasmaassisted ALD-grown ordered GaN nanostructures on Si substrates”, 16th International Conference on Atomic Layer Deposition (ALD 2016), Dublin, Ireland, 24 – 27 July (2016).
- Ali Haider, Cagla Ozgit-Akgun, ***Kholoud Elmabruk***, Ibrahim Yilmaz, Necmi Biyikli, “Template Assisted Growth of GaN Nanostructures by Hollow Cathode Plasma-assisted Atomic Layer Deposition”, 15th International Conference on Atomic Layer Deposition (ALD 2015), Portland, OR. 28 June – 2 July (2015)

Projects

- “Beam steering, frequency reconfigurable terahertz photomixer array using nano-actuators”. Funded by: EU H2020 Marie Sklodowska Curie Program, Reintegration (RI) Grant.
- “Development of frequency reconfigurable, wideband, high radiation resistance photomixers and photoconductive antennas for terahertz frequencies (114E089)”. Funded by: TUBITAK (3501).

Skills

Languages:

- Arabic “first language”
- English “advanced”
- Turkish “intermediate”

Computer:

- International Computer Driving License “ICDL”
- MATLAB
- Origin
- Computer Simulation Technology “CST”
- High-Frequency Structure Simulator “HFSS”