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MILITARY SERVICE:

Fulfilled.

MARITAL STATUS:

Married.

EDUCATION

- PhD** “Waveguiding of Electromagnetic Waves and Investigation of Negative Phase Velocity in Photonic Crystals and Metamaterials,” Bilkent University, Electrical and Electronics Engineering Department, Ankara, Turkey, Prof. Dr. Ekmel Özbay (Advisor) <http://www.thesis.bilkent.edu.tr/0006413.pdf> (August 2012)
- MSc** “An improved data acquisition system for contactless conductivity imaging,” Middle East Technical University, Electrical and Electronics Engineering Department, Ankara, Turkey, Prof. Dr. Nevzat G. Gençer (Advisor) <http://etd.lib.metu.edu.tr/upload/12606521/index.pdf> (April 2005)
- BSc** **Major:** Middle East Technical University, Electrical and Electronics Engineering Department, Ankara, Turkey.
Double Major: Middle East Technical University, Physics Department, Ankara, Turkey. (February 2002)
- High School** Gazi Anatolian High School, Ankara, Turkey (June 1997)

RESEARCH EXPERIENCE

- 6) **Research Associate and Deputy Manager:** Institute of Accelerator Technologies, Ankara University (since February 2015)
- 5) **Faculty member (Asst. Prof.):** Electrical and Electronics Engineering Department, Ankara University (since July 2013)
- 4) **Post-Doctoral Researcher:** Bilkent University, Nanotechnology Research Center (NANOTAM), Ankara, Turkey (August 2012 until December 2012)
- 3) **PhD Student:** Bilkent University, Electrical and Electronics Engineering Department, Ankara, Turkey. (September 2006-August 2012)
- 2) **MSc. Student:** Middle East Technical University, Electrical and Electronics Engineering Department, Ankara, Turkey. February 2002-April 2005)
- 1) **Undergraduate Trainee Student:** Middle East Technical University, Electrical and Electronics Engineering Department, Biomedical Division (Prof. Dr. Nevzat G. Gençer, supervisor), Ankara, Turkey. (September 2000- February 2002)

TEACHING EXPERIENCE

Lecturer in Electrical and Electronics Engineering Department, Ankara University

ELE203	Circuit Analysis I	2 semesters
ELE204	Circuit Analysis II	2 semesters
ELM206	Elektromanyetik I	3 semesters
ELE216	Electromagnetics I	3 semesters
ELM311	Elektromanyetik II	5 semesters
ELE315	Electromagnetics II	5 semesters
EEE215	Electromagnetics I	1 semester
300200714051	RF Yükselteçler (Y. Lisans, Hızlandırıcı Tekn. Enst.)	1 semester

Teaching Assistant in Middle East Technical University, Electrical and Electronics Engineering Department, Ankara, Turkey.

EE493	Senior Design Project I	(3 semesters)
EE494	Senior Design Project II	(3 semesters)

Teaching Assistant in Bilkent University, Electrical and Electronics Engineering Department, Ankara, Turkey.

EEE101	Introduction to Electrical and Electronics Engineering	(2 semesters)
MATH241	Engineering Mathematics I	(1 semester)
EEE313	Electronic Circuit Design	(8 semesters, last 3 semesters fulfilled as the Coordinator TA)
EEE552	Antenna Engineering	(1 semester)

PUBLICATIONS

Journal Publications

20 SCI/SCI-expanded publications (December 2016). An e-list together with downloadable file links can be seen in the following address:

<http://scholar.google.com/citations?user=372i8q1AAAAJ&hl=en>

Conferences (International)

- 13) "Multiple Slow Waves in a Simple Photonic Structure," E. Colak, A.E. Serebryannikov, A.O. Cakmak, and E. Ozbay, NANONG2015 (International Conference on Nanoscience&Nanotechnology for Next Generation 2015), October 29-31, 2015, Antalya, Turkey.
- 12) "Diffraction inspired unidirectional splitting in dielectric rod structures with broken symmetry," Evrim Colak, Andriy Serebryannikov, Atilla Ozgur Cakmak and Ekmel Ozbay, *Oral Presentation*, ELECTROTECH '15, III. International Electrical & Electronic Engineering and Technologies Conference, October 2-3, 2015, Istanbul, Turkey.
- 11) Atilla Ozgur Cakmak, **Evrım Colak**, Ekmel Ozbay, “Unidirectional Transmission in Photonic-crystal Gratings,” *Collaborator*

- for Poster Session, 2012 MRS (Materials Research Society) Spring Meeting & Exhibit, April 9 - 13, 2012, Moscone West Convention Center, Marriott Marquis - San Francisco, California-USA (2012)
- 10) Atilla Ozgur Cakmak, **Evrım Colak**, Ekmel Ozbay, "A Study on the Graded-index Photonic Crystals as Efficient Input and Output Couplers for Photonic Crystal Waveguides," *Collaborator for Poster Session*, 2012 MRS (Materials Research Society) Spring Meeting & Exhibit, April 9 - 13, 2012, Moscone West Convention Center, Marriott Marquis - San Francisco, California-USA (2012)
 - 9) Atilla O. Cakmak, **Evrım Colak**, Andriy E. Serebryannikov, Ekmel Ozbay, "Unidirectional transmission in photonic-crystal gratings at beam-type illumination," *Collaborator for Poster Session*, SPIE Photonics Europe, 16 - 19 April 2012, Square Brussels Meeting Centre, Brussels, Belgium (2012)
 - 8) Atilla O. Cakmak, Damla Ates, **Evrım I. Colak**, Ekmel Ozbay, "Enhanced transmission through deep subwavelength apertures," *Collaborator for the Oral Presentation*, SPIE Optics+Photonics, 1 - 5 August 2010, San Diego Convention Center, San Diego, California, United States (2010)
 - 7) **Evrım Colak**, Koray Aydın, Ekmel Ozbay, "Observation of Negative Refraction using Fishnet Metamaterials: Wedge Experiments," *Oral presentation*, SPIE Optics+Photonics, 1 - 5 August 2010, San Diego Convention Center, San Diego, California, United States (2010)
 - 6) **Evrım Colak**, Atilla Ozgur Cakmak, Andriy E. Serebryannikov, and Ekmel Ozbay, "Photonic Crystal based Spatial Filtering," *Oral Presentation*, LEOS2009, IEEE Conference, Oct 4-8, 2009, Antalya, Turkey.
 - 5) **Evrım Colak**, Humeyra Caglayan, Atilla Ozgur Cakmak, Ekmel Ozbay, Alessandro Della Villa, Filippo Capolino, "Surface Defect Layer for Beaming with Photonic Crystals," *Poster session*, SPIE Optics+Optoelectronics Conference April 20-22, 2009, Prague, Czech Republic.
 - 4) **Evrım Colak**, İrfan Bulu, Ekmel Ozbay and Pablo A. Postigo, "Theoretical and experimental study of enhancement of extraction efficiency in GaN LEDs by use of photonic bandgap structures," *Poster session*, 'PHOREMOST - 2nd Annual Workshop Advances in Nanophotonics, September 27, 2006, Vilnius, Lithuania
 - 3) Koray Ozdal Ozkan, **Evrım Colak**, Nevzat G. Gencer, Electrical Conductivity Imaging via Contactless Measurements: Multi-frequency Experiments. *Collaborator for the Oral Presentation*, "Biomedical Engineering Society Annual Meeting, BMES 2006", Chicago, USA, (2006)
 - 2) Koray Ozdal Ozkan, **Evrım Colak**, Nevzat G. Gencer, Electrical Conductivity Imaging via Contactless Measurements: Single-frequency Experiments. *Collaborator for the Oral Presentation*, "Biomedical Engineering Society Annual Meeting, BMES 2006", Chicago, USA, (2006)
 - 1) **Evrım Colak**, Koray Ozdal Ozkan, Nevzat G. Gencer, Electrical Conductivity Imaging via Contactless Measurements: A Novel Data Acquisition System. *Oral Presentation*, "Biomedical Engineering Society Annual Meeting, BMES 2006", Chicago, USA, (2006)

Conferences (National)

- 6) Sözlü Sunum: "Elektromanyetik Radyasyon", Radyasyon ve Nükleer Enerji Konferansı 9 Kasım 2013, Cumartesi, Ankara Üniversitesi, <http://nukbilimler.ankara.edu.tr/events/radyasyon-ve-nukleer-enerji-konferansi/>
- 5) Koray Özdal Özkan, **İ.E.Çolak**, Nevzat G. Gençer, "Dokuların Elektriksel İletkenliğinin Dokunmasız Yöntemlerle Görüntülenmesi: Canlı Hayvan Deneyi", *Sözlü Sunum (Katkıda bulunan)*, URSI-Türkiye'2006-3. Bilimsel Kongresi ve 4. Genel Kurul Toplantısı, 6-8 Eylül 2006, Ankara, Türkiye
 <http://www.ursi.org.tr/2006-Kongre/>, *Collaborator for the Oral Presentation*, "Contactless conductivity imaging of biological tissues: Live Animal Experiments," URSI-Turkey'2006-3rd Scientific Congress, September 6-8, 2006, Ankara, Turkey.
- 4) Koray Özdal Özkan, **İ. Evrım Çolak** ve Nevzat G. Gençer, "Dokuların Elektriksel İletkenliğinin Dokunmasız Yöntemlerle Görüntülenmesi: Çok-frekans Deneyleri", *Sözlü Sunum (Katkıda bulunan)*, BİYOMUT 2006. Biyomedikal Mühendisliği Ulusal Toplantısı; 25-28 Mayıs 2006, İstanbul, Türkiye, (Sözlü Sunum). *Collaborator for the Oral Presentation*, "Electrical Conductivity Imaging via Contactless Measurements: Multi-frequency Experiments", *BİYOMUT 2006. National Biomedical Engineering Conference; 25-28 May 2006, İstanbul, Türkiye.*
- 3) Koray Özdal Özkan, **İ. Evrım Çolak** ve Nevzat G. Gençer, "Dokuların Elektriksel İletkenliğinin Dokunmasız Yöntemlerle Görüntülenmesi: Tek Frekans Deneyleri", *Sözlü Sunum (Katkıda bulunan)*, BİYOMUT 2006. Biyomedikal Mühendisliği Ulusal Toplantısı; 25-28 Mayıs 2006, İstanbul, Türkiye, (Sözlü Sunum). *Collaborator for the Oral Presentation*, "Electrical Conductivity Imaging via Contactless Measurements: Single Frequency Experiments", *BİYOMUT 2006. National Biomedical Engineering Conference; 25-28 May 2006, İstanbul, Türkiye.*
- 2) **İ. Evrım Çolak**, Koray Özdal Özkan ve Nevzat G. Gençer, "Dokuların Elektriksel İletkenliğinin Dokunmasız Yöntemlerle Görüntülenmesi: Yeni Bir Veri İşleme Sistemi", *Sözlü Sunum*, BİYOMUT 2006. Biyomedikal Mühendisliği Ulusal Toplantısı; 25-28 Mayıs 2006, İstanbul, Türkiye, (Sözlü Sunum). *Oral Presentation*, "Electrical Conductivity Imaging via Contactless Measurements: A Novel Data Acquisition System", *BİYOMUT 2006. National Biomedical Engineering Conference; 25-28 May 2006, İstanbul, Türkiye.*
- 1) **Evrım Çolak**, Nevzat G. Gençer, "Dokuların Elektriksel İletkenliğinin Dokunmasız Yöntemlerle Görüntülenmesi", *Sözlü Sunum*, BİYOMUT 2003, Biyomedikal Mühendisliği Ulusal Toplantısı, , 38-41, İstanbul, Türkiye. *Oral Presentation*, "Contactless conductivity imaging of biological tissues", *Oral Presentation, National Biomedical Conference, BİYOMUT 2003, 38-41, İstanbul, Türkiye.*

LANGUAGES

English: Advanced Reading and Writing

COMPUTER SKILLS

Programming: C, C++, Turbo Pascal, Java, and Assembly for PIC microcontroller programming, Verilog, VHDL.

Applications: Actively using Matlab, Labview, HP VEE, HP VEE, CST Microwave Studio, RSOFT, Electronic Workbench, PCAD, PSpice, LTSpice and tutorial level knowledge on Lumerical.

Platforms: Windows.

OTHER

Violin, Basketball, Swimming, Vector Calculus. CNC Router construction and operation (I have a self made CNC Router).