

## Asst. Prof. YAKUP EMÜL

### Personal Information

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### Education Information

Doctorate, Gebze Yüksek Teknoloji Enstitüsü, Mühendislik Ve Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 2009 - 2014

Post Graduate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Y) (Tezli), Turkey 2004 - 2008

Under Graduate, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Mühendisliği Bölümü, Turkey 1997 - 2004

### Dissertations

Doctorate, MONTE CARLO YÖNTEMLERİ İLE TERMOTROPİK SIVI KRİSTAL ÖZELLİKLERİNİN BELİRLENMESİ, Gebze Yüksek Teknoloji Enstitüsü, Mühendislik Ve Fen Bilimleri Enstitüsü, Fizik (Dr), 2014

Post Graduate, Süpersimetrik kuantum elektrodinamiği, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Y) (Tezli), 2008

### Research Areas

Physics, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Sivas Cumhuriyet Üniversitesi, Teknoloji Fakültesi, Yazılım Mühendisliği Bölümü, 2014 - Continues

Research Assistant, Bahçeşehir Üniversitesi, Fen-Edebiyat Fakültesi, Matematik-Bilgisayar Bölümü, 2006 - 2014

### Professional Experience

Head of Department, Sivas Cumhuriyet Üniversitesi, Teknoloji Fakültesi, Yazılım Mühendisliği Bölümü, 2015 - 2017

### Courses

Optikte Sayısal Yöntemler, Post Graduate, 2019 - 2020

Bilgisayar Programlama - I, Under Graduate, 2019 - 2020

Sıvı Kristaller ve Elektro Optik Uygulamaları, Post Graduate, 2019 - 2020

Yapay Zeka, Under Graduate, 2019 - 2020

Bilgisayar Programlama, Under Graduate, 2018 - 2019

Bilgisayar Programlama - II, Under Graduate, 2018 - 2019

Bilgisayar Programlama, Under Graduate, 2018 - 2019

Uzmanlık Alan Dersi, Post Graduate, 2018 - 2019

Yapay Zeka, Under Graduate, 2019 - 2020

Elektrik Elektronik Bilgisi, Under Graduate, 2018 - 2019

BİLGİSAYAR PROGRAMLAMA, Under Graduate, 2016 - 2017, 2017 - 2018

ELEKTRİK ELEKTRONİK BİLGİSİ, Under Graduate, 2016 - 2017, 2017 - 2018

Bilgisayar Programlama - II, Under Graduate, 2017 - 2018

OPTİKTE SAYISAL YÖNTEMLER, Post Graduate, 2017 - 2018

BİLGİSAYAR PROGRAMLAMA - 1, Under Graduate, 2017 - 2018  
BİLGİSAYAR PROGRAMLAMA - 2, Under Graduate, 2016 - 2017, 2017 - 2018  
SIVI KRİSTALLER VE ELEKTRO OPTİK UYGULAMALARI, Post Graduate, 2016 - 2017, 2017 - 2018  
Seminer Dersi, Post Graduate, 2017 - 2018  
Elektrik Elektronik Bilgisi, Under Graduate, 2016 - 2017  
Bilgisayar Programlama - I, Under Graduate, 2017 - 2018

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **DFT and semi-empirical analyses of Cr-3(+) and Fe3+ impurity centers in Cs<sub>2</sub>NaYF<sub>6</sub>: Microscopic insight into structural properties**  
Erbahar D., EMÜL Y., Acikgoz M.  
POLYHEDRON, vol.173, 2019 (Journal Indexed in SCI)
- **Microscopic insight into electronic and structural properties of Cr<sup>3+</sup> and Fe<sup>3+</sup> impurities in Cs<sub>2</sub>NaAlF<sub>6</sub> via DFT and SPM analyses**  
Erbahar D., EMÜL Y., Acikgoz M.  
JOURNAL OF FLUORINE CHEMISTRY, vol.226, 2019 (Journal Indexed in SCI)
- **Analysis of paramagnetic 3d ions (Cr<sup>3+</sup> and Fe<sup>3+</sup>) centers in fluoroelpasolite Cs<sub>2</sub>NaGaF<sub>6</sub> crystal by both DFT and SPM calculations**  
Erbahar D., Emul Y., Acikgoz M.  
CHEMICAL PHYSICS, vol.501, pp.93-100, 2018 (Journal Indexed in SCI)
- **Investigation of the Mueller Matrix elements of the liquid crystal cell illuminated with a broad band light source**  
POLAT Ö., EMÜL Y., Ozharar S.  
OPTICAL AND QUANTUM ELECTRONICS, vol.49, 2017 (Journal Indexed in SCI)
- **Investigation of the Fe<sup>3+</sup> centers in perovskite KMgF<sub>3</sub> through a combination of ab initio (density functional theory) and semi-empirical (superposition model) calculations**  
Emul Y., Erbahar D., Acikgoz M.  
JOURNAL OF APPLIED PHYSICS, vol.118, 2015 (Journal Indexed in SCI)
- **Analysis of the local structure around Cr<sup>3+</sup> centers in perovskite KMgF<sub>3</sub> using both ab initio (DFT) and semi-empirical (SPM) calculations**  
Emul Y., Erbahar D., Acikgoz M.  
CHEMICAL PHYSICS, vol.444, pp.52-60, 2014 (Journal Indexed in SCI)
- **Investigating electro-optical properties of a nematic liquid crystal cell with planar anchoring boundary condition for various thicknesses: A Monte Carlo study**  
Emul Y., Polat O., San S. E. , Kayacan O., Özbek H.  
OPTICAL MATERIALS, vol.36, pp.1373-1377, 2014 (Journal Indexed in SCI)

## Refereed Congress / Symposium Publications in Proceedings

- **Investigation of the trigonal Cr<sup>3+</sup> and Fe<sup>3+</sup> centers in perovskite ABF<sub>3</sub> crystals through a combination of ab initio (DFT) and semi-empirical (SPM) calculations**  
EMÜL Y., ERBAHAR D., AÇIKGÖZ M.  
NANOTR-12, 12th International Nanoscience and Nanotechnology Conference, 3 - 05 Haziran 2016

## Citations

Total Citations (WOS):14

h-index (WOS):3