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
Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Yl) (Tezli), Turkey 2004 - 2008
Undergraduate, Istanbul Technical University, 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
Postgraduate, Süpersimetrik kuantum elektrodinamiği, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Yl) (Tezli), 2008

Research Areas

Physics, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Sivas Cumhuriyet University, Teknoloji Fakültesi, Yazılım Mühendisliği Bölümü, 2014 - Continues
Research Assistant, Bahcesehir University, Faculty Of Arts And Scıences, Department Of Mathematıcs And Computer, 2006 - 2014

Academic and Administrative Experience

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

Courses

Optikte Sayısal Yöntemler, Postgraduate, 2019 - 2020
Bilgisayar Programlama - I, Undergraduate, 2019 - 2020
Sıvı Kristaller ve Elektro Optik Uygulamaları, Postgraduate, 2019 - 2020
Yapay Zeka, Undergraduate, 2019 - 2020

Bilgisayar Programlama, Undergraduate, 2018 - 2019
Bilgisayar Programlama - II, Undergraduate, 2018 - 2019
Bilgisayar Programlama, Undergraduate, 2018 - 2019
Uzmanlık Alan Dersi, Postgraduate, 2018 - 2019
Yapay Zeka, Undergraduate, 2019 - 2020
Elektrik Elektronik Bilgisi, Undergraduate, 2018 - 2019
BİLGİSAYAR PROGRAMLAMA, Undergraduate, 2016 - 2017, 2017 - 2018
ELEKTRİK ELEKTRONİK BİLGİSİ, Undergraduate, 2016 - 2017, 2017 - 2018
Bilgisayar Programlama - II, Undergraduate, 2017 - 2018
OPTİKTE SAYISAL YÖNTEMLER, Postgraduate, 2017 - 2018
BİLGİSAYAR PROGRAMLAMA - 1, Undergraduate, 2017 - 2018
BİLGİSAYAR PROGRAMLAMA - 2, Undergraduate, 2016 - 2017, 2017 - 2018
SIVI KRİSTALLER VE ELEKTRO OPTİK UYGULAMALARI, Postgraduate, 2016 - 2017, 2017 - 2018
Seminer Dersi, Postgraduate, 2017 - 2018
Elektrik Elektronik Bilgisi, Undergraduate, 2016 - 2017
Bilgisayar Programlama - I, Undergraduate, 2017 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

I. **DFT and semi-empirical analyses of Cr-3(+) and Fe3+ impurity centers in Cs2NaYF6: Microscopic insight into structural properties**
Erbahar D., EMÜL Y., Acikgoz M.
POLYHEDRON, vol.173, 2019 (Peer-Reviewed Journal)

II. **Microscopic insight into electronic and structural properties of Cr3+ and Fe3+ impurities in Cs2NaAlF6 via DFT and SPM analyses**
Erbahar D., EMÜL Y., Acikgoz M.
JOURNAL OF FLUORINE CHEMISTRY, vol.226, 2019 (Peer-Reviewed Journal)

III. **Analysis of paramagnetic 3d ions (Cr3+ and Fe3+) centers in fluoroelpasolite Cs2NaGaF6 crystal by both DFT and SPM calculations**
Erbahar D., Emul Y., Acikgoz M.
CHEMICAL PHYSICS, vol.501, pp.93-100, 2018 (Peer-Reviewed Journal)

IV. **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, no.6, 2017 (Peer-Reviewed Journal)

V. **Investigation of the Fe3+ centers in perovskite KMgF3 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, no.6, 2015 (Peer-Reviewed Journal)

VI. **Analysis of the local structure around Cr3+ centers in perovskite KMgF3 using both ab initio (DFT) and semi-empirical (SPM) calculations**
Emul Y., Erbahar D., Acikgoz M.
CHEMICAL PHYSICS, vol.444, pp.52-60, 2014 (Peer-Reviewed Journal)

VII. **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, no.8, pp.1373-1377, 2014 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Investigation of the trigonal Cr3+ and Fe3+ centers in perovskite ABF3 crystals through a combination of ab initio (DFT) and semi-emprical (SPM) calculations**
EMÜL Y., ERBAHAR D., AÇIKGÖZ M.
NANOTR-12, 12th International Nanoscience and Nanotechnology Conference, 3 - 05 June 2016

Metrics

Publication: 8
Citation (WoS): 15
Citation (Scopus): 16
H-Index (WoS): 3
H-Index (Scopus): 3