

Assoc. Prof. CENGİZ AKAY



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International Researcher IDs

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Publons / Web Of Science ResearcherID: W-1656-2017

ScopusID: 55884917500

Yoksis Researcher ID: 157806

Biography

Cengiz Akay graduated from Bursa Uludağ University physics department by completing his undergraduate, graduate and doctorate degrees. Currently, he is working as an associate professor at the same place. He works in the fields of medical physics and mechatronics.

Education Information

Doctorate, Bursa Uludağ University, Fen-Edebiyat Fakültesi, Fizik, Turkey 1992 - 1999

Postgraduate, Bursa Uludağ University, Fen-Edebiyat Fakültesi, Fizik, Turkey 1989 - 1991

Undergraduate, Bursa Uludağ University, Fen-Edebiyat Fakültesi, Fizik, Turkey 1983 - 1988

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Manyetik rezonans spektrometresi için yeni bir sinyal ortalama bilgisayarının kurgulanması ve yapılması, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, Fizik Bölümü, 1999

Postgraduate, Zayıf NMR sinyallerinin deteksiyonu, gerilim-frekans çeviricisi, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, Fizik Bölümü, 1991

Research Areas

Physics, Atomic and Molecular Physics, General Physics

Academic Titles / Tasks

Associate Professor, Bursa Uludağ University, Fen-Edebiyat Fakültesi, Fizik, 2001 - Continues

Lecturer, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, FİZİK, 1999 - 2001

Research Assistant, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, FİZİK, 1989 - 1999

Academic and Administrative Experience

Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, Fizik Bölümü, 2011 - 2014

Courses

FZK2004 FİZİKSEL MATEMATİK II, Undergraduate, 2017 - 2018, 2016 - 2017

FZK2073 FİZİGE GİRİŞ I, Undergraduate, 2017 - 2018

END5191 TEZ DANIŞMANLIĞI I, Postgraduate, 2017 - 2018

FZK1071 - TEMEL FİZİK I, Undergraduate, 2017 - 2018

FZK1071 TEMEL FİZİK I, Postgraduate, 2017 - 2018

FZK2074 FİZİGE GİRİŞ II, Undergraduate, 2017 - 2018

IKT5181 YÜKSEK LİSANS UZMANLIK ALAN DERSİ I, Postgraduate, 2017 - 2018

FZK0508 DOGA FELSEFESİ TARİHL, Undergraduate, 2017 - 2018, 2016 - 2017

FZK2410 FİZİK TARİHİ, Undergraduate, 2017 - 2018, 2016 - 2017

FZK 1078 Fizik Lab., Undergraduate, 2017 - 2018

FZK2001Bil Fizik I, Undergraduate, 2017 - 2018

FZK2003 FİZİKSEL MATEMATİK I, Undergraduate, 2017 - 2018

FZK1076 Fizik, Undergraduate, 2017 - 2018

FZK5182 - YUKSEK LISANS UZMANLIK ALAN DERSİ II, Postgraduate, 2016 - 2017

END5192 Tez Danışmanlığı II, Postgraduate, 2016 - 2017

FZK5101 Manyetik Rezonansta Deneysel Teknikler ve Ölçümler, Postgraduate, 2016 - 2017

FZK1072 TEMEL FİZİK II, Undergraduate, 2016 - 2017

FZK5103 Spektroskopik Yöntemler, Postgraduate, 2016 - 2017

FZK5404 Fizikte Sayısal Çözüm Yöntemleri I, Postgraduate, 2016 - 2017

Advising Theses

AKAY C., Frequency adjustable magnetic particle spectrometer design and construction, Postgraduate, Y.Akyürekli(Student), 2019

AKAY C., Simulation and MRI thermography study of the heating effects on Ag/AgCl electrodes in 3T MRI scanner, Postgraduate, A.KEPCEOĞLU(Student), 2012

Published journal articles indexed by SCI, SSCI, and AHCI

- Effect of Mn doping on structural, optical and magnetic properties of ZnO films fabricated by sol-gel spin coating method**
Gültekin Z., Alper M., Hacıismailoğlu M. C., Akay C.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.34, no.5, 2023 (SCI-Expanded)

- II. **Intermolecular effects of fluorocarbons on MC800 asphaltene and their characterization**
Kirimli H., Ovalioglu H., Akay C.
Acta Physica Polonica A, vol.131, no.3, pp.336-338, 2017 (SCI-Expanded)
- III. **Intermolecular magnetic spin-spin interaction in asphaltene suspensions at 1.53 mT**
Ovalioglu H., Kirimli H., Akay C.
Acta Physica Polonica A, vol.129, no.4, pp.806-809, 2016 (SCI-Expanded)
- IV. **Ag/AgCl electrodes in the EEG/fMRI method in 3T MRI scanner**
AKAY C., Kepceoglu A.
EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS, vol.64, no.1, 2013 (SCI-Expanded)
- V. **Molecule sensing in air**
Akay C.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.10, pp.3012-3015, 2008 (SCI-Expanded)
- VI. **Optical Moisture Meter Based on GaInAsSb Led's and Photodiodes**
Akay C., Ahmetoğlu M., Özer M.
Romanian Journal Of Physics, vol.49, no.34, pp.251-256, 2004 (SCI-Expanded)
- VII. **A NEW WEAK-FIELD DOUBLE-RESONANCE NMR SPECTROMETER**
AKAY C., YALCINER A.
ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, vol.50, pp.177-185, 1995 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigation of Spintronic Properties of Transition Metal Doped ZnO Thin Films Produced by Sol-Gel Spin Coating**
Gültekin Z., Akay C., Altınölçek Gültekin N.
SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.28, no.5, pp.1064-1075, 2024 (Peer-Reviewed Journal)
- II. **NMR Spectroscopy in the Earths Magnetic Field**
Akay C., Engin Kırıklı H.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.12, no.2, pp.428-434, 2023 (Peer-Reviewed Journal)
- III. **Production of ZnO thin films used in solar cell with a sol-gel homemade dip coater technique and investigated of their structural, morphological and optical properties**
GÜLTEKİN Z., AKAY C., Gültekin N., ALPER M.
Eurasian Journal of Physics and Functional Materials, vol.7, no.4, pp.213-220, 2023 (Scopus)
- IV. **Design and Construction of Home-Made Source Measure Unit**
AKAY C., GÜLTEKİN Z.
Engineering and Technology Journal, vol.3, no.7, pp.1183-1189, 2022 (Peer-Reviewed Journal)
- V. **Design and Construction of Home-Made Spin Coater for OLED Production**
Gültekin Z., Alper M., Akay C., Hacismailoğlu M. C.
International Journal of Electronics and Device Physics, vol.5, no.1, pp.0-11, 2021 (Peer-Reviewed Journal)
- VI. **Coilgun design and evaluation without capacitor**
Akay C., Bavuk U., Tunçdamar A., Özer M.
Journal of Mechatronics and Artificial Intelligence in Engineering, vol.1, no.2, pp.53-62, 2020 (Peer-Reviewed Journal)
- VII. **2019 Portable magnetic nanoparticle spectrometer**
Akay C., Akyürekli Y., Uzak E., Tunçdamar A.
Afyon Kocatepe University International Journal of Engineering Technology and Applied Science, vol.2, no.1, pp.1-9, 2019 (Peer-Reviewed Journal)
- VIII. **Portable Magnetic Nanoparticle Spectrometer**
AKAY C., AKYÜREKLİ Y., UZAK E., Tunçdamar A.
Afyon Kocatepe University International Journal of Engineering Technology and Applied Sciences, vol.2, no.1, pp.1-

9, 2019 (Peer-Reviewed Journal)

- IX. **Dynamic nuclear polarization in suspensions of liquid asphalts in weak magnetic field**
Akay C., Yalçın A., Ovalıođlu H., Çimenođlu M. A.
ARI Bulletin of the Technical University of Istanbul , vol.51, pp.141-144, 2014 (Peer-Reviewed Journal)
- X. **DUAL -WAVELENGTH MODEL OF A NEW TYPE OPTICAL MOISTURE METER BASED ON GaInAsSb SOLID SOLUTIONS**
Akay C., Ahmetođlu M.
Anadolu Üniversitesi Bilim Ve Teknoloji Dergisi A - Uygulamalı Bilimler ve Mühendislik, vol.5, no.2, pp.233-236, 2004 (Peer-Reviewed Journal)
- XI. **OPTICAL MOISTURE METER BASED on GaInAsSb LED's and PHOTODIODES**
AHMETOĐLU M., AKAY C., ÖZER M.
ROMANIAN JOURNAL IN PHYSICS, vol.49, pp.251-256, 2004 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Chapter 10 Orientation of spin systems with HAARP Technology**
Akay C., Gültekin Z.
in: International Studies in Science and Mathematics, Editors PROF. DR. HASAN AKGÜL PROF. DR. HAYRI BABA ASSOC. PROF. DR. NESLİHAN İYİT, Editor, Serüven Yayınevi / Serüven Publishing, Ankara, pp.149-161, 2023

Refereed Congress / Symposium Publications in Proceedings

- I. **Gazll' Savaşlann Bir Benzeri Olarak Avalanche Fotodiyotlar**
Tapan İ., AKAY C., ALPER M.
TFD 18. Fizik Kongresi, Adana, Turkey, 25 October 1999 - 28 October 2010
- II. **PC-ISA Veri Yolu**
AKAY C.
TFD 19. Fizik Kongresi, Elazığ, Turkey, 26 - 27 October 2000
- III. **Nötron Akısı Altında Avalanche Fotodiyot Karakteristiklerinin Deđişimlerinin İncelenmesi**
Tapan İ., AKAY C., ALPER M.
TFD 17. Fizik Kongresi, Antalya, Turkey, 27 - 31 October 1998
- IV. **Zayıf Alan Çift Rezonans NMR Spektrometresi için Ortalama Bilgisayarı**
AKAY C., Yalçın A., OVALIOĐLU H.
II. Kızılırmak Uluslararası Fen Bilimleri Kongresi, Kırıkkale, Turkey, 20 May - 22 October 1998
- V. **B_1998 Proton ve Fluor içeren Bazı Organik Moleküllerin NMR Aşırı İnce Yapısının Bilgisayar Yardımıyla İncelenmesi 2**
Yalçın A., OVALIOĐLU H., AKAY C.
II. Kızılırmak Uluslararası Fen Bilimleri Kongresi, Kırıkkale, Turkey, 20 May - 22 October 1998
- VI. **Software Supported Signal Averager**
AKAY C., Yalçın A.
TFD 15. Fizik Kongresi, 1995, Antalya, Turkey, 26 September 1995 - 29 September 1997
- VII. **Signal Averaging For Double Resonance Weak Field NMR Spectrometer**
AKAY C., Yalçın A.
BPU-3rd General Conference of The Balkan Physical Union, 1997, Cluj-Napoca, Romania, 2 - 05 September 1997
- VIII. **Intermolecular Spin-spin Interactions in Suspensions of Liquid Asphalts in Weak Magnetic Field**
yalçın a., AKAY C., Çimenođlu M. A.
BPU-3rd General Conference of The Balkan Physical Union, Cluj-Napoca, Romania, 2 - 05 September 1997, pp.116-119
- IX. **Dynamic Nuclear Polarization in Suspensions of Liquid Asphalts in Weak Magnetic Field**

Yalçiner A., Çimenoglu M. A., AKAY C., OVALIOĞLU H.

LAMP-97 International Symposium on Lasers, Atomic and Molecular Physics, İstanbul, Turkey, 16 - 20 September 1997

- X. **Karışık Çözgenlerdeki Asfaltın Süspansiyonlarında Dinamik Nükleer Polarizasyon**
Çimenoglu M. A., AKAY C., Yalçiner A.
TFD 16. Ulusal Fizik Kongresi, Balıkesir, Turkey, 26 August 1996 - 29 October 2017
- XI. **MR Görüntüleme Yöntemleri ve Menisküs Şüpheli Diz Görüntüleri**
Yalçiner A., Çimenoglu M. A., AKAY C., Güzelgöz M. M.
VI. Fizik Mühendisliği, Bilimsel ve Teknik Kurultayı, Ankara, Turkey, 6 - 08 March 1996
- XII. **Yeni Bir Zayıf Alan Çift Rezonans NMR Spektrometresi**
AKAY C., Yalçiner A.
TFD 14. Ulusal Fizik Kongresi, 1993, Lefkoşa, Cyprus (Kktc), 25 - 27 September 1993
- XIII. **NMR Sinyallerinin entegrasyonu ve çok kanallı saptanması**
AKAY C.
TFD 12. Ulusal Fizik Kongresi, İzmir, Turkey, 19 - 21 October 1990

Supported Projects

Akay C., Gültekin Z., Altınölcük Gültekin N., Project Supported by Higher Education Institutions, Investigation of the Properties of Transition Metal Doped ZnO Thin Films, 2023 - 2024

AKAY C., Project Supported by Higher Education Institutions, EFNMR Spektroskopisinde çok Boyutlu Dinamik Çekirdek Kutuplanması ve Veri Analizi, 2012 - 2017

Patent

Akay C., Bavuk , İç içe geçmiş yapıda alternatör sistemi, Patent, CHAPTER A Human Needs, The Invention Registration Number: 2019/15071 , Standard Registration, 2023

Scientific Refereeing

Gazi University Journal of Science, National Scientific Refreed Journal, March 2021

Metrics

Publication: 32

Citation (WoS): 22

Citation (Scopus): 23

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H-Index (Scopus): 2