Asst. Prof. MAHMUT BUCURGAT

Personal Information

Email: mahmut.bucurgat@gazi.edu.tr
Web: https://avesis.gazi.edu.tr/mahmut.bucurgat

International Researcher IDs
ScholarID: L7qW0AwAAAAJ
ORCID: 0000-0002-6368-1945
Publons / Web Of Science ResearcherID: AHE-7939-2022
ScopusID: 6505833650
Yoksis Researcher ID: 202461

Education Information

Doctorate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, Turkey 1998 - 2008
Postgraduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, Turkey 1995 - 1998
Undergraduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, Turkey 1990 - 1994

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Study of One Dimensional Position Dependent Effective Mass Problem in Some Quantum Mechanical Systems, Middle East Technical University, Çağdaş Türk Lehçeleri ve Edebiyatları, Türk ve İslam Sanatı, 2008
Postgraduate, Photoconductivity and Thermally Stimulated Conductivity in Thallium Indium Sulphide Crystal, Middle East Technical University, Çağdaş Türk Lehçeleri ve Edebiyatları, Türk ve İslam Sanatı, 1998

Research Areas

Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties

Academic Titles / Tasks

Assistant Professor, Gazi University, Fen Fakültesi, Fizik, 2023 - Continues
Lecturer, Gazi University, Fen Fakültesi, Fizik, 2018 - 2023
Expert, Gazi University, Fen Fakültesi, Fizik Bölümü, 2013 - 2018
Expert, Gazi University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2008 - 2013
Other, Gazi University, Tıp Fakültesi, Dahili Tıp Bilimleri, 2005 - 2008
Other, Gazi University, Tıp Fakültesi, Temel Tıp Bilimleri, 2003 - 2005
Research Assistant, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, 1995 - 2003

Courses

PHYSICS I, Undergraduate, 2023 - 2024
PHYSICS LABORATORY I, Undergraduate, 2023 - 2024
PHYSICS I, Undergraduate, 2023 - 2024
PHYSICS LABORATORY I, Undergraduate, 2023 - 2024
PHYSICS II, Undergraduate, 2020 - 2021
PHYS104, Undergraduate, 2020 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Photocurrent analysis of AgIn5S8 crystal**
BUCURGAT M., Ozdemir S., Firat T.
BULLETIN OF MATERIALS SCIENCE, vol.39, no.6, pp.1521-1529, 2016 (SCI-Expanded)
II. **Characteristics of traps in AgIn5S8 single crystals**
Ozdemir S., BUCURGAT M., Firat T.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.611, pp.7-10, 2014 (SCI-Expanded)
III. **Photoelectrical properties of TlGaSe2 single crystals**
Ozdemir S., BUCURGAT M.
SOLID STATE SCIENCES, vol.33, pp.25-31, 2014 (SCI-Expanded)
IV. **Characteristics of traps in TlInS2 single crystals**
Ozdemir S., BUCURGAT M.
CURRENT APPLIED PHYSICS, vol.13, no.9, pp.1948-1952, 2013 (SCI-Expanded)
V. **Exact solution of effective mass Schrodinger equation for the Hulthen potential**
Sever R., TEZCAN C., Yesiltas Ö., Bucurgat M.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, no.9, pp.2243-2248, 2008 (SCI-Expanded)
VI. **Bound state solution of the Schrodinger equation for Mie potential**
Sever R., Bucurgat M., Tezcan C., Yesiltas Ö.
JOURNAL OF MATHEMATICAL CHEMISTRY, no.2, pp.749-755, 2008 (SCI-Expanded)
VII. **Trap levels in layered semiconductor TlInS_{1.9}Se_{0.1}**
ÖZDEMİR S., HASANLI N., Bucurgat M.
PHYSICA STATUS SOLIDI A-APPLIED RESEARCH, vol.196, no.2, pp.422-428, 2003 (SCI-Expanded)

Articles Published in Other Journals

I. **Voltage Dependent Barrier Height, Ideality Factor and Surface States in Au/(NiS-PVP)/n-Si (MPS) type Schottky Barrier Diodes**
BUCURGAT M.
Iğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 2020 (Peer-Reviewed Journal)
II. **Effect of Illumination Temperature on Thermally Stimulated Current Spectrum of TlInS2**
ÖZDEMİR S., SÜLEYMANLI R., BUCURGAT M., BULUR E.
TURKISH JOURNAL OF PHYSICS, vol.23, no.6, pp.1013-1020, 1999 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

I. **Kliniğimizde CLINAC DHX Cihazında Tedavi Gören Tüm Hastalarımızın Günlük Tedaviye Giriş ve Çıkış Sürelerinin Değerlendirilmesi**
İLİ M., SERKAN B., AKMANSU M., KARAHACIOĞLU E., BUCURGAT M.

X. Ulusal Radyasyon Onkolojisi Kongresi, Antalya, Turkey, 19 - 23 April 2012

II. **Dose Compensation by Using 3 Dimensional Dose Distribution in Total Body Irradiation and Verification by MOSFET Detectors**
SÖNMEZ A., BUCURGAT M., ÇATLI DİNÇ S., KURUGÖL C., DEMİRCİ T., BORA H., AKMANSU M., PAK Y.
VII. Ulusal Radyasyon Onkolojisi Kongresi, Fethiye/Muğla, Turkey, 19 - 23 April 2006

III. **Tüm Beden Işınlamasında Demet Saçıcının Cilt Dozu ve Build-up Bölgesine Etkisi**
ÇATLI DİNÇ S., SÖNMEZ A., BUCURGAT M., GÖKSEL F., AKMANSU M., PAK Y.
VII.Ulusal Radyasyon Onkolojisi Kongresi, Turkey, 19 - 23 April 2006

IV. **The Effect of Beam Spoiler to Skin Dose and Build up Region in Total Body Irradiation**
ÇATLI DİNÇ S., SÖNMEZ A., BUCURGAT M., GÖKSEL F., AKMANSU M., PAK Y.
VII. Ulusal Radyasyon Onkolojisi Kongresi, Fethiye/Muğla, Turkey, 19 - 23 April 2006

V. **Tüm Vücut Işınlamasında Üç Boyutlu Doz Dağılımları Kullanılarak Doz Kompansasyonu ve Mosfet Dedektörlerle Verifikasyonu**
SÖNMEZ A., BUCURGAT M., ÇATLI DİNÇ S., HANÇER C., DEMİRCİ T., BORA H., AKMANSU M., PAK Y.
VII.Ulusal Radyasyon Onkolojisi Kongresi, Turkey, 19 - 23 April 2006

VI. **ELF and RF Alan Kaynağı Olarak Bebek Monitörlerinin İncelenmesi**
CANSEVEN KURŞUN A. G., BUCURGAT M., SEYHAN H. N.
XVI. Ulusal Biyofizik Kongresi, Ankara, Turkey, 19 - 22 September 2004

VII. **Temperature Dependent Photoconductivity Properties of TlInS2 Crystal**
ÖZDEMİR S., BUCURGAT M.
VII. Condensed Matter Physics Seminars METU, Ankara, Turkey, 01 December 1998

VIII. **Effect of Sensitizing Centers on Thermally Stimulated Conductivity Characteristics of TlInS2**
ÖZDEMİR S., BUCURGAT M.
VI. Condensed Matter Physics Seminars, Ankara, Turkey, 1 - 03 December 1997

Metrics

Publication: 17
Citation (WoS): 80
Citation (Scopus): 87
H-Index (WoS): 5
H-Index (Scopus): 5

Non Academic Experience

GAZİ ÜNİVERSİTESİ TIP FAKÜLTESİ RADYASYON ONKOLOJİSİ BÖLÜMÜ
GAZİ ÜNİVERSITESİ TIP FAKÜLTESİ BİYOFİZİK BÖLÜMÜ