

Asst. Prof. MAHMUT BUCURGAT

Personal Information

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International Researcher IDs

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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.
İğdır 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. **Current-Voltage (I-V) Characteristics of the (Au:Ti)/Si3N4/n-GaAs (MIS) Structure Both in Dark and Under Illumination in Wide Voltage Range at Room Temperature**
BUCURGAT M.

4th International Natural Science, Engineering and Material Technologies Conference İğneada, Kırklareli/TÜRKİYE, September 12-14, 2024, Kırklareli, Turkey, 12 - 14 September 2024

II. **Illumination Effects on Capacitance-Voltage Characteristics and Negative Capacitance Behavior in Au/n-GaAs (MS) And Au/Si₃N₄/n-GaAs (MIS) Type Structures**

BUCURGAT M.

International Conference on Advanced Materials Science & Engineering and High Tech Devices Applications; Exhibition (ICMATSE 2024), October 24-26, 2024, Ankara, TURKIYE, Ankara, Turkey, 24 - 26 October 2024

III. **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

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. **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

VI. **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

VII. **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

VIII. **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

IX. **Temperature Dependent Photoconductivity Properties of TlInS₂ Crystal**

ÖZDEMİR S., BUCURGAT M.

VII. Condensed Matter Physics Seminars METU, Ankara, Turkey, 01 December 1998

X. **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: 19

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 ÜNİVERSİTESİ TIP FAKÜLTESİ BİYOFİZİK BÖLÜMÜ