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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAM-6729-2021

ScopusID: 16024797500

Yoksis Researcher ID: 156575

Learning Knowledge

Doctorate
1995 - 2000

Ankara University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey

Postgraduate
1992 - 1995

Ankara University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey

Undergraduate
1988 - 1992

Ankara University, Fen Fakültesi, Fizik Bölümü, Turkey

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Sıkıştırılmış spin durumları ve uygulamaları, Ankara University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2000

Postgraduate, Katılarda perkolasyon mekanizmasının incelenmesi, Ankara University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 1995

Academic Titles / Tasks

Professor
2021 - Continues

Gazi University, Fen Bilimleri Enstitüsü, İLERİ TEKNOLOJİLER

Professor
2017 - 2021

Gazi University, Teknik Bilimler Meslek Yüksekokulu, Elektrik ve Enerji Bölümü

Associate Professor
2014 - 2017

Gazi University, Teknik Bilimler Meslek Yüksekokulu, Elektrik ve Enerji Bölümü

Associate Professor
2011 - 2013

Gazi University, Atatürk Meslek Yüksekokulu, Elektrik ve Enerji

Expert
2000 - 2011

Diğer (Kurumlar,hastaneler Vb.), Kurumlar, TÜRKİYE ATOM ENERJİSİ KURUMU

Research Assistant
1993 - 2000

Ankara University, Fen Fakültesi, Fizik Bölümü

Supported Projects

1. ASAR T., BOSTAN B., GÖKMEN U., BİLGE OCAK S., YILMAZ T. A., TAŞCI U., GÜRGEN AVŞAR S., Project Supported by Higher Education Institutions, Eklemeli İmalat Yöntemi ile Üretilen 174 PH Paslanmaz Çelik Altaşlar Üzerine Elektron Demet Buharlaştırma Yöntemi ile Al₂O₃ Metal Oksit Kaplanması, 2022 - Continues
2. GÖKMEN U., BİLGE OCAK S., Özkan Z., Project Supported by Higher Education Institutions, Farklı Oranlarda B4C ve TiO₂ İle Takviye Edilmiş AA6XXX Esaslı Fonksiyonel Derecelendirilmiş Hibrit Kompozitlerin Üretimi Ve Radyasyon Zırhlama Özelliklerinin İncelenmesi, 2022 - 2024
3. Bostan B., Gökmen U., Bilge Ocak S., Taşcı U., Yılmaz T. A., Tekeli S., Altuntaş G., Tanış N. A., Bilgen S., Özkan Z., Project Supported by Higher Education Institutions, Eklemeli İmalat Yöntemiyle Inconel 625 Matrisli B4C Katmanlı Fonksiyonel Derecelendirilmiş Kompozit Malzeme Üretimi Yapısal Mekanik Tribolojik ve Radyoaktivite Özelliklerinin Araştırılması, 2022 - 2023
4. Bilge Ocak S., Gökmen U., Project Supported by Higher Education Institutions, Pestisit Kalıntı Analizi İçin Grafen Oksit Kullanarak Elektrokimyasal Sensör Tasarımı ve Analiz Metodunun Validasyonu, 2020 - 2022
5. Gökmen U., Bilge Ocak S., Çinici H., Akay D., Project Supported by Higher Education Institutions, AZ91 ve Al-Cu Esaslı Seramik Parçacık (B4C) Takviyeli Kompozit Malzeme Üretimi Ve Radyoaktif Zırhlama Özelliklerinin İncelenmesi, 2020 - 2022
6. Gökmen U., Bilge Ocak S., Project Supported by Higher Education Institutions, Komünikasyon Sistemlerinde kullanılmak üzere, Fotodedektör Üretimi ve Karakterizasyonu, 2019 - 2021
7. Bostan B., Gökmen U., Taşcı U., Bilge Ocak S., Project Supported by Higher Education Institutions, Inconel 718 Süperalaşım Tozunun Enjeksiyon Kalıplanması için Özgün Bağlayıcı Formülü Geliştirilmesi ve Akış Davranışının İncelenmesi, 2017 - 2019
8. Bilge Ocak S., Gökmen U., Project Supported by Higher Education Institutions, Yarı İletken Radyasyon Dedektörü, 2017 - 2018
9. Bilge Ocak S., Premiership, • Design and Production of Radiation Detection Devices (Hiprad), 2009 - 2015
10. BİLGE OCAK S., Project Supported by Higher Education Institutions, Organik /İnorganik yarıiletken malzemelerin hazırlanması ve karakterizasyonu, 2012 - 2014
11. BİLGE OCAK S., Project Supported by Higher Education Institutions, Oksit filmlerin optiksel ve elektriksel özelliklerinin araştırılması, 2012 - 2014
12. Bilge Ocak S., Premiership, • Hızlandırılmış Çevre ve Malzeme Bilimindeki Uygulamaları (Hızlandırılmış Elektronlar ile İçme ve Atık suların Işınlanması), 2001 - 2005
13. Bilge Ocak S., Premiership, • Hızlandırılmış Çevre ve Malzeme Bilimindeki Uygulamaları (Hızlandırılmış Elektron Demeti kullanarak Baca Gazlarından SO_x ve NO_x in uzaklaştırılması), 2001 - 2005
14. Bilge Ocak S., Tan E., Premiership, Technical Support for an Electron Beam Facility, 2000 - 2005
15. Bilge Ocak S., Altanhan T., TUBITAK Project, Yoğun madde fiziğinde sıkıştırılmış durumlar, 1997 - 1999

Scholarships

doktora bursu , TUBITAK, 1997 - 1999

Jury Memberships

Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, December, 2022

Post Graduate, Post Graduate, Gazi Üniversitesi, November, 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- Beta Irradiation Effects on Electrical Characteristics of Graphene-Doped PVA/n-type Si Nanostructures**
Abay Ö., ULUSOY M., UYAR E., GÖKMEN U., BİLGE OCAK S.
ACS Omega, vol.9, no.22, pp.23193-23201, 2024 (SCI-Expanded)
- Electrical characterization of Al/SnO₂/PbO/Si double layer MOS under the moderate radiation effect**
AKAY D., Alkan S., Altin Z., GÖKMEN U., BİLGE OCAK S.
Radiation Physics and Chemistry, vol.216, 2024 (SCI-Expanded)
- Structural and Optical Properties of Interfacial InSe Thin Film**
Emir C., TATAROĞLU A., COŞKUN E., BİLGE OCAK S.
ACS OMEGA, 2024 (SCI-Expanded)
- Natural Radioactivity Levels of the Beach Sands of Cleopatra Beach and Damlatas Beach (Türkiye) and Their Impact on Human Health**
Unal S., YALÇIN M. G., BİLGE OCAK S.
ACS Omega, vol.9, no.1, pp.351-360, 2024 (SCI-Expanded)
- Characterization of electrical parameters in PbO/SnO₂ double layer semiconductor (DLS) diodes**
Seven E., Akay D., Bilge Ocak S., Orhan E.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.169, 2024 (SCI-Expanded)
- Semiconducting Double-Layer Lead Monoxide Tin Oxide Nanostructures for Photodetectors**
Akay D., Seven E., Gökmen U., Bilge Ocak S.
ACS APPLIED NANO MATERIALS, vol.6, no.19, pp.17482-17490, 2023 (SCI-Expanded)
- Microstructural and Radioactive Shielding Analyses of Alumix-231 and Alumix-231 Reinforced with B₄C/SiC/Al₂O₃ Particles Produced through Hot Pressing**
Gökmen U., Golzari L. E. J., Avşar S. G., Özkan Z., Ocak S. B.
ACS OMEGA, vol.8, no.39, pp.35755-35767, 2023 (SCI-Expanded)
- Electrical and optical properties of p-Si based structures with lead oxide interfaces**
Aydemir G. A., AKAY D., TATAROĞLU A., BİLGE OCAK S.
Materials Science and Engineering B: Solid-State Materials for Advanced Technology, vol.294, 2023 (SCI-Expanded)
- Analyses of Gamma and Neutron Attenuation Properties of the AA6082 composite material doped with boron carbide (B₄C)**
Özkan Z., Gökmen U., Bilge Ocak S.
Radiation Physics and Chemistry, vol.206, 2023 (SCI-Expanded)
- Detection of adulteration using statistical methods over carbon isotope ratios in carob, grape, fig and mulberry pekmez**
Yücel P., Güçlü H., Mert Y., YALÇIN F., BİLGE OCAK S.
Journal of Food Composition and Analysis, vol.115, 2023 (SCI-Expanded)
- Electroanalytical Determination of Ziram by Differential Pulse Voltammetry with Reduced Graphene Oxide/Gold Nanoparticles Modified Glassy Carbon Electrode**

- Aslan N., Bilge Ocak S., Gökmen U.
ACTA CHIMICA SLOVENICA, vol.69, pp.638-646, 2022 (SCI-Expanded)
12. **Structural role of double layer amphoteric oxides forms on electrical conductivity: PbO/zinc oxide semiconductor**
Akay D., Gökmen U., Bilge Ocak S.
PHYSICA SCRIPTA, vol.97, no.9, 2022 (SCI-Expanded)
13. **Investigation of radiation shielding by adding Al₂O₃ and SiO₂ into the high-speed steel composites: Comparative study**
Gökmen U., Özkan Z., Taşçı U., Bilge Ocak S.
Physica Scripta, vol.97, no.5, 2022 (SCI-Expanded)
14. **The impact of gamma-ray irradiation on temperature-sensitive electrical characteristics of Graphene/Al₂O₃/p-type Si structure**
Kaymak N., Orhan E., Bilge Ocak S.
PHYSICA SCRIPTA, vol.96, no.12, 2021 (SCI-Expanded)
15. **Impact of the gamma and neutron attenuation behaviors on the functionally graded composite materials**
GÖKMEN U., Ozkan Z., BİLGE OCAK S.
PHYSICA SCRIPTA, vol.96, no.12, 2021 (SCI-Expanded)
16. **Changes in frequency-dependent dielectric features of monolayer graphene/silicon structure due to gamma irradiation**
Seven E., ORHAN E., BİLGE OCAK S.
PHYSICA SCRIPTA, vol.96, no.12, 2021 (SCI-Expanded)
17. **Gamma-ray irradiation effects on capacitance and conductance of graphene-based Schottky diode**
Kutluoglu E. E., Orhan E., Bayram Ö., Bilge Ocak S.
PHYSICA B-CONDENSED MATTER, vol.621, 2021 (SCI-Expanded)
18. **Dielectric characteristics and electrical conductivity behavior of graphene/Al₂O₃/p-type silicon structure**
Kaymak N., Orhan E., Bayram O., Bilge Ocak S.
Materials Chemistry and Physics, vol.258, 2021 (SCI-Expanded)
19. **3D-graphene-laser patterned p-type silicon Schottky diode**
Orhan E., Efil E., Bayram O., Kaymak N., Berberoglu H., Candemir O., Pavlov I., Ocak S. B.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.121, 2021 (SCI-Expanded)
20. **Current voltage analyses of Graphene-based structure onto Al₂O₃/p-Si using various methods**
Efil E., Kaymak N., Seven E., Orhan E., Bayram Ö., Bilge Ocak S., Tataroğlu A.
VACUUM, vol.181, 2020 (SCI-Expanded)
21. **Investigation of the Effect of Hydrothermal Waters on Radionuclide Activity Concentrations in Natural Marble with Multivariate Statistical Analysis**
Yalçın F., Unal S., Yalçın M. G., Aktürk Ö., Bilge Ocak S., Özmen S. F.
SYMMETRY-BASEL, vol.12, no.8, 2020 (SCI-Expanded)
22. **Electrical properties of Graphene/Silicon structure with Al₂O₃ interlayer**
Kaymak N., Bayram Ö., Tataroğlu A., Bilge Ocak S., Orhan E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.12, pp.9719-9725, 2020 (SCI-Expanded)
23. **Ionizing Radiation Influence on Rubrene-Based Metal Polymer Semiconductors: Direct Information of Intrinsic Electrical Properties**
Akay D., Gokmen U., Ocak S.
JOM, vol.72, no.6, pp.2391-2397, 2020 (SCI-Expanded)
24. **TUNING THE ELECTRICAL PROPERTIES WITH HIGHER GAMMA-RAY IRRADIATION: POLY (METHYL METHACRYLATE)/LEAD OXIDE (PbO) COMPOSITE NANOSTRUCTURES**
Akay D., Ocak S.
SURFACE REVIEW AND LETTERS, vol.27, no.6, 2020 (SCI-Expanded)

25. **An evaluation of dielectric qualities by using frequency dependence in superbenzene-ring based organic polymer-semiconductors**
Akay D., Gokmen U., Ocak S.
MATERIALS CHEMISTRY AND PHYSICS, vol.245, 2020 (SCI-Expanded)
26. **Effects of temperature and frequency on capacitance and conductance characteristics of zinc-oxide based MIS-Structure**
Kaymak N., Efil E., Seven E., Tataroğlu A., Bilge Ocak S., Orhan E.
PHYSICA B-CONDENSED MATTER, vol.576, 2020 (SCI-Expanded)
27. **Radiation-induced changes on poly(methyl methacrylate) (PMMA)/lead oxide (PbO) composite nanostructure**
Akay D., Gökmen U., Ocak S.
PHYSICA SCRIPTA, vol.94, no.11, 2019 (SCI-Expanded)
28. **Frequency dependent dielectric properties of atomic layer deposition grown zinc-oxide based MIS structure**
Efil E., Kaymak N., Seven E., Tataroglu A., Ocak S., Orhan E.
PHYSICA B-CONDENSED MATTER, vol.568, pp.31-35, 2019 (SCI-Expanded)
29. **Electrical characteristics analyses of zinc-oxide based MIS structure grown by atomic layer deposition**
Kaymak N., Efil E., Seven E., Tataroğlu A., Bilge S., Orhan E.
MATERIALS RESEARCH EXPRESS, vol.6, no.2, 2019 (SCI-Expanded)
30. **Study of frequency dependent characterization: applied gamma-ray irradiation on metal-polymer nanostructure**
Akay D., Efil E., Kaymak N., Orhan E., Ocak S.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.318, no.2, pp.1409-1417, 2018 (SCI-Expanded)
31. **Effect of gamma-ray irradiation on the electrical characteristics of Al/C24H12/p-Si nano-structure**
Akay D., Karadeniz S., Selcuk A. B., Bilge Ocak S.
PHYSICA SCRIPTA, vol.93, no.9, 2018 (SCI-Expanded)
32. **Computation of gamma radioactivity of natural rocks in the vicinity of Antalya province and its effect on health**
Unal S., Yalcin M. R., Ocak S., Yalcin R., Ozmen S. F.
KERNTECHNIK, vol.83, no.2, pp.112-120, 2018 (SCI-Expanded)
33. **Investigation of dielectric properties of heterostructures based on ZnO structures**
Selcuk A. H., Orhan E., Ocak S., Selcuk A. B., Gökmen U.
MATERIALS SCIENCE-POLAND, vol.35, no.4, pp.885-892, 2017 (SCI-Expanded)
34. **An analytical solution for the graphene electronic spectrum in the presence of external fields and confinement potential**
Cagatay B., Ocak S.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.30, no.11, 2016 (SCI-Expanded)
35. **Frequency dependent dielectric properties of Al/maleic anhydride (MA)/p-Si structures**
Ocak S., Selcuk A. B., Bayram S. B., Ozbay A.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.17, pp.1747-1755, 2015 (SCI-Expanded)
36. **Frequency dependent dielectric properties of PMMA deposited on p-type silicon**
Selcuk A. B., Ocak S., Aras G., ORHAN E.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.38, pp.119-125, 2015 (SCI-Expanded)
37. **Electrical analysis of Al/ZnO/p-Si, Al/PMMA/p-Si and Al/PMMA/ZnO/p-Si structures: Comparison study**
Ocak S., Selcuk A. B., Aras G., Orhan E.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.38, pp.249-256, 2015 (SCI-Expanded)
38. **Investigation of diode parameters using I-V and C-V characteristics of Al/maleic anhydride (MA)/p-Si structure**
Selcuk A. B., Ocak S., Kahraman G., Selcuk A. H.

- BULLETIN OF MATERIALS SCIENCE, vol.37, no.7, pp.1717-1724, 2014 (SCI-Expanded)
39. **Electrical Characteristics of Al/Poly(methyl methacrylate)/p-Si Schottky Device**
Selcuk A. B., Ocak S., Aras F. G., ORHAN E.
JOURNAL OF ELECTRONIC MATERIALS, vol.43, no.9, pp.3263-3269, 2014 (SCI-Expanded)
40. **Electrical characteristics of a Schottky device based on maleic anhydride deposited on p-type silicon by spin coating technique**
Ocak S., Selcuk A. B., Kahraman G., Selcuk A. H.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.16, pp.956-963, 2014 (SCI-Expanded)
41. **Characterization of electrical properties of Al/maleic anhydride (MA)/p-Si structures by well-known methods**
Ocak S., Selcuk A. B., Kahraman G., Selcuk A. H.
SYNTHETIC METALS, vol.191, pp.83-88, 2014 (SCI-Expanded)
42. **Multivariate Statistics and Heavy Metals Contamination in Beach Sediments from The Sakarya Canyon, Turkey**
Yalçın M. G., Simsek G., Bilge Ocak S., Yalçın F., Kalayci Y., Karaman M. E.
ASIAN JOURNAL OF CHEMISTRY, vol.25, no.4, pp.2059-2066, 2013 (SCI-Expanded)
43. **Effects of gamma irradiation on dielectric characteristics of SnO₂ thin films**
Selcuk A. B., Ocak S., Yuksel O. F.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.594, no.3, pp.395-399, 2008 (SCI-Expanded)
44. **Investigation of diode parameters using I-V and C-V characteristics of In/SiO₂/p-Si (MIS) Schottky diodes**
Yuksel O. F., Selcuk A. B., Ocak S.
PHYSICA B-CONDENSED MATTER, vol.403, no.17, pp.2690-2697, 2008 (SCI-Expanded)
45. **Solutions of two-mode bosonic and transformed Hamiltonians**
Ocak S., Yesiltas Ö., Demircioglu B.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.47, no.7, pp.1865-1876, 2008 (SCI-Expanded)
46. **High frequency characteristics of tin oxide thin films on Si**
Yuksel O. F., Ocak S., Selcuk A. B.
VACUUM, vol.82, no.11, pp.1183-1186, 2008 (SCI-Expanded)
47. **The generalized PT-symmetric Sinh-Gordon potential solvable within quantum Hamilton-Jacobi formalism**
YEŞİLTAŞ Ö., Ocak S.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.47, no.2, pp.415-420, 2008 (SCI-Expanded)
48. **Effect of oxide thickness on the capacitance and conductance characteristics of MOS structures**
Tugluoglu N., Karadeniz S., Selcuk A. B., Ocak S.
PHYSICA B-CONDENSED MATTER, vol.400, pp.168-174, 2007 (SCI-Expanded)
49. **Analysis of frequency-dependent In/SiO₂/P-Si series resistance and interface states of (MIS) structures**
Selcuk A. B., Tugluoglu N., Karadeniz S., Ocak S.
PHYSICA B-CONDENSED MATTER, vol.400, pp.149-154, 2007 (SCI-Expanded)
50. **(CO)-C-60 gamma-ray irradiation effects on the capacitance and conductance characteristics of tin oxide films on Si**
Selcuk A. B., Ocak S.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.577, no.3, pp.719-723, 2007 (SCI-Expanded)
51. **On the interface trap density and series resistance of tin oxide film prepared on n-type Si(111) substrate: Frequency dependent effects before and after (CO)-C-60 gamma-ray irradiation**
Karadeniz S., Selcuk A. B., Tugluoglu N., Ocak S.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.259, no.2, pp.889-894, 2007 (SCI-Expanded)

52. **Supersymmetric analysis of a spin Hamiltonian model**
Demircioglu B., Ocak S., Kuru S.
PHYSICS LETTERS A, vol.353, no.1, pp.34-39, 2006 (SCI-Expanded)
53. **Two-mode bosonic squeezing and symmetry breaking**
Ocak S.
PHYSICS LETTERS A, vol.335, pp.402-407, 2005 (SCI-Expanded)
54. **The effective potential of squeezed spin states**
Ocak S., Altanhan T.
PHYSICS LETTERS A, vol.308, no.1, pp.17-22, 2003 (SCI-Expanded)
55. **A squeezed-state approach for the spin polaron in the t-J model**
Bilge S., Altanhan T.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.12, no.8, pp.1837-1843, 2000 (SCI-Expanded)
56. **Squeezed spin states and Heisenberg interaction**
Altanhan T., Bilge S.
JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL, vol.32, no.1, pp.115-121, 1999 (SCI-Expanded)

Articles Published in Other Journals

1. **Optimization of an Adulteration Detection Technique in Grape, Carob, Fig, and Mulberry Molasses (Pekmez) Based on Physicochemical Properties**
Güçlü H., Yücel P., Ocak S.
ACS Food Science & Technology, vol.3, no.10, pp.1768-1776, 2023 (ESCI)
2. **Process Improvement Between Company Departments with the Integration of ERP and CRM Software Programs**
Ulusoy Yılmaz M., ÖZYÖRÜK B., OCAK S. B.
Gazi University Journal of Science Part A: Engineering and Innovation, vol.10, no.2, pp.241-261, 2023 (Peer-Reviewed Journal)
3. **The Effect of Ionizing Radiation on Device Parameters In Organic Based Schottky Diodes Used in Solar Cell Applications**
Karadaniz S., Barış B., Karadeniz H., Bilge Ocak S., Selçuk A.
Karadeniz, vol.11, no.1, pp.222-238, 2021 (Peer-Reviewed Journal)
4. **Investigation of radiation attenuation properties of Al-Cu matrix composites reinforced by different amount of B₄ C particles**
GOKMEN U., ÖZKAN Z., Eslam JamalGolzari L., bilge ocak s.
BOR DERGİSİ, vol.5, no.3, pp.124-130, 2020 (Peer-Reviewed Journal)
5. **An Analyses of Schottky Structure with Lead Monoxide Layer**
Bilge Ocak S., Gökmen U.
Composite Materials Research, vol.1, no.2, 2019 (Peer-Reviewed Journal)
6. **An investigation of the electrical properties of PbO based MOS-type different Schottky barrier diodes on a structure**
Bilge Ocak S., Orhan E.
AIP CONFERENCE PROCEEDINGS, vol.1935, no.1, pp.160002-160008, 2018 (Peer-Reviewed Journal)
7. **Investigation of low-frequency dependent characteristics of Al/Maleic Anhydride (MA)/p-Si Schottky barrier diode**
Orhan E., Bilge Ocak S., Selçuk A. B.
AIP Conference Proceedings, vol.1935, no.1, pp.1-5, 2018 (Peer-Reviewed Journal)
8. **Experimental Study of Effects of Ultrasonic Waves on Heat Distribution in Gaseous Medium**
Köprü M., Orhan E., Bilge Ocak S.
Procedia - Social and Behavioral Sciences, vol.195, pp.2849-2858, 2015 (Peer-Reviewed Journal)
9. **Dielectric Properties of Al Poly methyl methacrylate PMMA p Si Structures at Temperatures Below**

300 K

Orhan E., Bilge Ocak S.

Procedia - Social and Behavioral Sciences, vol.195, pp.1740-1745, 2015 (Peer-Reviewed Journal)

10. **Influence of alpha particle irradiation on oxide layer schottky of structures**
Bilge Ocak S., Selçuk A.
IOSR (IOSR-JAGG), vol.1, pp.10-13, 2013 (Peer-Reviewed Journal)
11. **Gaussian Distribution on Electrical characteristics of Al SiO₂ p Si Structures**
Bilge Ocak S., Karadeniz S.
American Journal of Materials Science, vol.2, pp.125-130, 2012 (Peer-Reviewed Journal)
12. **Hızlandırılmış Elektron Demeti ile Atık Suların Işınlanması Tekniğinin Değerlendirilmesi**
Bilge Ocak S.
TMMOB Fizik Mühendisleri Odası, vol.2, pp.30-38, 2002 (Peer-Reviewed Journal)
13. **Çok Amaçlı Kullanım için Elektron Hızlandırıcı Ünitesi Tasarımı**
Bilge Ocak S.
TMMOB Fizik Mühendisleri Odası Bülteni, vol.1, pp.10-20, 2002 (Peer-Reviewed Journal)
14. **Hızlandırılmış Elektron Demeti ile Baca Gazlarından SO₂ ve NO_x'in Uzaklaştırılması İşleminin Teknik ve Ekonomik Açından Değerlendirilmesi**
Bilge Ocak S.
TMMOB Fizik Mühendisleri Odası Bülteni, vol.2, pp.1-10, 2001 (Peer-Reviewed Journal)
15. **Evaluation of the electron beam flue gas treatment process to remove SO₂ and NO_x emission from coal thermal power plants in Turkey**
Bilge Ocak S.
IAEA-SM-, vol.366, no.155, pp.120-122, 2001 (Peer-Reviewed Journal)

Books & Book Chapters

1. **RADIATION SHIELDING PROPERTIES OF REINFORCED (BaSO₄ AND SIC) AZ91 MATERIALS**
GÖKMEN U., BİLGE OCAK S., Z. Ö., YALÇIN G.
in: MECHANICAL ENGINEERING, MATERIALS SCIENCE RESEARCH AND APPLICATIONS, Prof. Dr. Yusuf ŞAHİN Prof. Dr. Adrian OLARU Assist. Prof. Senai YALÇINKAYA, Editor, Güven Plus Group Inc. Publications, pp.107-133, 2022
2. **Comparison Of Electronic Properties Of Poly (Methyl Methacrylate) With The Double Heterostructure (Pmma/ Lead Oxides)**
Akay D., Gökmen U., Bilge Ocak S.
in: Engineering On Energy Materials, Akay Defne, Editor, Iksad Publications, Ankara, pp.3-28, 2020
3. **SICAK PRESLEME YÖNTEMİ İLE ÜRETİLMİŞ B4CPARÇACIK TAKVİYELİ MAGNEZYUM MATRİSLİKOMPOZİT MALZEMENİN RADYOAKTİFÖZELLİKLERİNİN TEORİK OLARAK İNCELENMESİ**
Gökmen U., Yılmaz Ö., Bilge Ocak S.
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4. **ORGANİK ARAYÜZEY TABAKALI METAL-YARIİLETKEN YAPILARIN ELEKTRİKSEL ÖZELLİKLERİNİN BETA RADYASYONUNA BAĞLI İNCELENMESİ**
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20. **Gamma-ray irradiation investigation on the electrical properties of PMMA/ZnO deposited on p-type silicon**
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34. **Investigation of Low Frequency- Dependent Characteristics of PBOthin Films**
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ORHAN E., BİLGE OCAK S., TATAROĞLU A.
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56. **Electrical and Dielectric Characteristics of Maleic Anhydride Deposited on P Type Silicon**
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59. **Radon Gazının Etkileri**
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2.Tıbbi Jeoloji Çalıştayı,, Antalya, Turkey, 4 - 06 December 2013, pp.273-275
60. **Radyasyon Ölçüm Teknikleri**
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2.Tıbbi Jeoloji Çalıştayı, Antalya, Turkey, 4 - 06 December 2013, pp.271-272
61. **Electrical properties of Al/PMMA/ZnO diodes**
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0. nanoscience and nanotechnology conferance, Erzurum, Turkey, 24 - 28 June 2013, pp.15-18
62. **Squeezing of the two-photon Rabi Hamiltonian**
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23. International Physics Congress of the Turkish Physical Society, 2005, Muğla, Turkey, 13 - 16 September 2005, pp.604-610
63. **ELEKTRON HIZLANDIRICILARININ DEPOLANAN TAHILLARDAKİ BÖCEKLENMENİN ÖNLENMESİNE YÖNELİK KULLANIMI**
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64. **Study of Plasma-based dtack Gases cleaning Technolgy to remove SOxand NOX emission from Coal – Fired Power Plants in Turkey**
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Nuclear science and its application, Almati, Kazakhstan, 16 - 19 September 2002, pp.255-260
65. **Treatment of air pollution from thermal power plants in Turkey by using electron beam**
Bilge Ocak S.
Nuclear Analytical Methods in the life sciences, Antalya, Turkey, 16 - 21 June 2002, pp.28-35
66. **Elektron Hızlandırıcılarının Gıda Işınlaması için Değerlendirilmesi**
Bilge Ocak S.
Ankara Üniversitesi Ziraat Fakültesi Gıda Mühendisliği Bölümü Gıda Teknolojisi Derneği Türkiye 7.Gıda Kongresi , Ankara, Turkey, 22 - 24 May 2002, pp.2-10

Academic and Administrative Experience

2021 - Continues	Head of Department	Gazi University, Fen Bilimleri Enstitüsü, İleri Teknolojiler
2016 - 2019	Head of Department	Gazi University, Teknik Bilimler Meslek Yüksekokulu, Elektrik ve Enerji Bölümü

Courses

Radyasyon Algılama Sistemleri, Doctorate, 2022 - 2023

İLERİ NÖTRON VE REAKRÖE FİZİĞİ, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2015 - 2016

DOZİMETRİ ÖLÇÜM TEKNİKLERİ, Postgraduate, 2021 - 2022, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

radasyon algilama sistemleri, Doctorate, 2021 - 2022

MEDİKAL GÖRÜNTÜLEME VE TEKNİKLERİ, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2015 - 2016, 2012 - 2013

Advising Theses

Ocak S. B., BİLGE OCAK S., Investigation of radiation-induced electrical properties of polymer and oxide interface layered structures, Postgraduate, B.ÖZKARA(Student), 2022

BİLGE OCAK S., Investigation Of Gamma Radiation Effect On Pmma/Pbo Structure, Postgraduate, G.GÜNEŞ(Student), 2019

Bilge Ocak S., Investigation Of Electrical Properties Of Al/Ma/P-Si Structures With Different Methods, Postgraduate, A.Özbay(Student), 2019

BİLGE OCAK S., Epitaxially Growth Of Gan-Pin Sensor And Characterizations, Postgraduate, Ö.AHMET(Student), 2019

BİLGE OCAK S., Investigation Of Pilating And Waferability Of Papers Printed In Electrophotographic Printing System, Postgraduate, B.ERBAŞ(Student), 2019

BİLGE OCAK S., Al/MA/p-Si yapıların elektriksel özelliklerinin farklı metodlarla incelenmesi, Postgraduate, A.ÖZBAY(Student), 2019

Bilge Ocak S., Investigation of electricity properties of metal oxidesemiconductor doped lead oxide, Postgraduate, İ.Cıdır(Student), 2017

BİLGE OCAK S., Interface Characterization Of Mis Structures, Postgraduate, R.OKUR(Student), 2016

Activities in Scientific Journals

Gazi University Journal of Science Part A: Engineering and Innovation, First Editor, 2020 - Continues

Gazi University Journal of Science Part A: Engineering and Innovation, First Editor, 2020 - Continues

Scientific Refereeing

APPLIED PHYSICS A: MATERIALS SCIENCE AND PROCESSING, SCI Journal, February 2022

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International Journal Of Modern Physics B, SCI Journal, July 2021

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Physica Scripta, SCI Journal, March 2021

APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, SCI Journal, December 2020

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KARADENİZ FEN BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, June 2020

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CUMHURİYET ÜNİVERSİTESİ FEN-EDEBİYAT FAKÜLTESİ FEN BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, January 2016

Measurement & Control, SCI Journal, May 2015

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Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Nuclear physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties

Non Academic Experience

İtalya

Other Public Institution, Türkiye Atom Enerjisi Kurumu, AR-GE Bölümü
SARAYKÖY NÜKLEER ARAŞTIRMA VE EĞİTİM MERKEZİ