



SEMA BİLGE OCAK

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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

Education

Doctorate 1995 - 2000	Ankara University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey
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Postgraduate 1992 - 1995	Ankara University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey
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Undergraduate 1988 - 1992	Ankara University, Fen Fakültesi, Fizik Bölümü, Turkey
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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
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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. Özkan Z., Bilge Ocak S., Gökmen U., 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
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., Taşçı 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

1. **Development of ceramic particle-reinforced AZ91 composites for enhanced X-ray shielding performance**
Karabacak G., Ozkan Z., GÜRGEN AVŞAR S., BİLGE OCAK S., GÖKMEN U.
CERAMICS INTERNATIONAL, no.8, pp.10842-10856, 2025 (SCI-Expanded)
2. **Damage mechanisms caused by radiation in Proton(ion beam) double interface layer nano-MOS structure**
AKAY D., Abay Ö., Sönmez H., GÖKMEN U., BİLGE OCAK S.
Radiation Physics and Chemistry, vol.227, 2025 (SCI-Expanded)
3. **Damage analysis caused by 60Co ions in functionally graded materials**
ÖZKAN Z., GÖKMEN U., BİLGE OCAK S.
Defence Technology, vol.44, pp.248-256, 2025 (SCI-Expanded)
4. **Analysis of the structural and optical characteristics of ZnSe thin flms as interface layer**
Emir C., Tataroğlu A., Gökmen U., Bilge Ocak S.
JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, vol.36, no.168, pp.1-12, 2025 (SCI-Expanded)
5. **Beta Irradiation Effects on Electrical Characteristics of Graphene-Doped PVA/n-type Si Nanostructures**
Abay Ö., Ulusoy M., Uyar E., Gökmen U., Bilge Ocak S.
ACS Omega, vol.9, no.22, pp.23193-23201, 2024 (SCI-Expanded)
6. **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)
7. **Structural and Optical Properties of Interfacial InSe Thin Film**
Emir C., TATAROĞLU A., COŞKUN E., BİLGE OCAK S.
ACS OMEGA, no.7, pp.7588-7596, 2024 (SCI-Expanded)
8. **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)
9. **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)
10. **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)

11. **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)
12. **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)
13. **Analyses of Gamma and Neutron Attenuation Properties of the AA6082 composite material doped with boron carbide (B_4C)**
Özkan Z., Gökmen U., Bilge Ocak S.
RADIATION PHYSICS AND CHEMISTRY, vol.206, 2023 (SCI-Expanded)
14. **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)
15. **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)
16. **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)
17. **Investigation of radiation shielding by adding Al_2O_3 and SiO_2 into the high-speed steel composites: Comparative study**
Gökmen U., Özkan Z., Taşcı U., Bilge Ocak S.
Physica Scripta, vol.97, no.5, 2022 (SCI-Expanded)
18. **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)
19. **The impact of gamma-ray irradiation on temperature-sensitive electrical characteristics of Graphene/ Al_2O_3 /p-type Si structure**
Kaymak N., Orhan E., Bilge Ocak S.
PHYSICA SCRIPTA, vol.96, no.12, 2021 (SCI-Expanded)
20. **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)
21. **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)
22. **Dielectric characteristics and electrical conductivity behavior of graphene/ Al_2O_3 /p-type silicon structure**
Kaymak N., Orhan E., Bayram O., Bilge Ocak S.
Materials Chemistry and Physics, vol.258, 2021 (SCI-Expanded)
23. **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)

24. **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)
25. **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)
26. **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)
27. **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)
28. **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)
29. **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)
30. **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)
31. **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)
32. **Frequency dependent dielectric properties of atomic layer deposition grown zinc-oxide based MIS structure**
Efil E., Kaymak N., Seven E., Tataroğlu A., Ocak S., Orhan E.
PHYSICA B-CONDENSED MATTER, vol.568, pp.31-35, 2019 (SCI-Expanded)
33. **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)
34. **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)
35. **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)
36. **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)
37. **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)
38. **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)
39. **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)
40. **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)
41. **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)
42. **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)
43. **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)
44. **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)
45. **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)
46. **Multivariate Statistics and Heavy Metals Contamination in Beach Sediments from The Sakarya Canyon, Turkey**
Yalçın M. G., Simsek G., Bilge Ocak S., Yalçın F., Kalaycı Y., Karaman M. E.
ASIAN JOURNAL OF CHEMISTRY, vol.25, no.4, pp.2059-2066, 2013 (SCI-Expanded)
47. **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)
48. **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)
49. **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)
50. **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)
51. **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)
52. **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)
53. **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)
54. **(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)
55. **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)
56. **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)
57. **Two-mode bosonic squeezing and symmetry breaking**
Ocak S.
PHYSICS LETTERS A, vol.335, pp.402-407, 2005 (SCI-Expanded)
58. **The effective potential of squeezed spin states**
Ocak S., Altanhan T.
PHYSICS LETTERS A, vol.308, no.1, pp.17-22, 2003 (SCI-Expanded)
59. **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)
60. **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

- 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)
- 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)
- The Effect of Ionizing Radiation on Device Parameters In Organic Based Schottky Diodes Used in Solar Cell Applications**
Karadeniz 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 B₄C 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

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Heterostructure (Pmma/ Lead Oxides)

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3. **SICAK PRESLEME YÖNTEMİ İLE ÜRETİLMİŞ B4CPARÇACIK TAKVİYELİ MAGNEZYUM MATRİSLİKOMPOZİT MALZEMENİN RADYOAKTİFÖZELLİKLERİNİN TEORİK OLARAK İNCELENMESİ**
Gökmen U., Yılmaz Ö., Bilge Ocak S.
in: MÜHENDİSLİK ALANINDA TEKNOLOJİK GELİŞMELER, PROF. DR. HÜLYA KALAYCIOĞLUDR. ÖĞR. ÜYESİ SENAI YALÇINKAYA, Editor, GÜVEN PLUS GRUP DANIŞMANLIK A.Ş. YAYINLARI, İstanbul, pp.287-309, 2020
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GÜRGEN AVŞAR S., ÖZKAN Z., GÖKMEN U., BİLGE OCAK S.
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2. **POLİMER ARAYÜZEY KATMANLI METAL/POLİMER/YARIİLETKEN (MPS) YAPILARI ÜZERİNE BETA RADYASYONUNUN C- V VE G/ω- V KARAKTERİSTİKLERİ ÜZERİNE ETKİSİ**
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3. **INVESTIGATION OF RADIATION SHIELDING PROPERTIES OF SiC REINFORCED AZ91 MATRIX COMPOSITE MATERIALS**
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4. **ÇİFT KATMANLI YAPININ FREKANS BAĞLI DİELEKTRİK ÖZELLİKLERİ**
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5. **ORGANİK ARAYÜZEY TABAKALI METAL-YARIİLETKEN YAPILARIN ELEKTRİKSEL ÖZELLİKLERİNİN BETA RADYASYONUNA BAĞLI İNCELENMESİ**
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8. ULUSLARARASI MÜHENDİSLİK VE TEKNOLOJİ YÖNETİMİ KONGRESİ, İstanbul, Turkey, 08 December 2022, pp.134-138
6. **Mathematical models describing the correlation between electrical conductivity and ash content of adulterated Turkish molasses**
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7. **Gamma and Neutron Attenuation Behaviors of Composite Materials**
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8. **T15 YÜKSEK HIZ ÇELİĞİNİN RADYASYON ZAYIFLATMA ÖZELLİKLERİNİN ARAŞTIRILMASI**

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III. Uluslararası Savunma Sanayi Sempozyumu, Kırıkkale, Turkey, 7 - 09 October 2021, pp.1-4
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10. **Graphen oxide/Gold Nanoparticle Based Electro chemical Sensor Design For Pesticide Residue Analysis**
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11. **Characterization Of Electrical Properties Of PMMA/Pbo Structures**
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12. **Analyses Of Diode Parameters Using C-V and G-V Characteristics Of Al/PMMA/PbO/P-Si Structures**
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13. **T15 YÜKSEK HIZ ÇELİĞİNİN RADYASYON ZAYIFLATMA ÖZELLİKLERİNİN ARAŞTIRILMASI**
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7. EUROPEAN CONFERENCEONRENEWABLE ENERGY SYSTEMS, 10 - 12 June 2019
19. **ELECTRONIC AND CONDUCTIVITY CHARACTERISTICS OFRUBRENE PENTAGON BASED SCHOTTKY BARRIER DIODES(SBDs): 蓄積 GAMMA-RAY IRRADIATION**
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20. **Dijital Baskıda Kağıt Yüzey Yapısının Görüntü Kalitesine Etkisinin İncelenmesi**
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36. **Investigation of Low Frequency- Dependent Characteristics of PBOThin Films**
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46. **Dielectric Properties of Hetero-Structures Based on ZnO**
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47. **Gamma-Ray Irradiation Effects on Electric Characteristic of Al/C24H12/p-Si Structures**
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52. **Effect of PBO Nanolayer on Electrical Characteritics of Al PBO P Si Schottky Device**
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58. **Electrical and Dielectric Characteristics of Maleic Anhydride Deposited on P Type Silicon**
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61. **Radon Gazının Etkileri**
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2.Tıbbi Jeoloji Çalıştay1,, Antalya, Turkey, 4 - 06 December 2013, pp.273-275
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64. **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
65. **ELEKTRON HIZLANDIRICILARININ DEPOLANAN TAHILLARDAKİ BÖCEKLENMENİN ÖNLENMESİNE YÖNELİK KULLANIMI**
Bilge Ocak S.

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66. **Study of Plasma-based dtack Gases cleaning Technolgy to remove SOxand NOX emission from Coal – Fired Power Plants in Turkey**

Bilge Ocak S.

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67. **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

68. **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

Doctorate

Radyasyon Algılama Sistemleri, Doctorate, 2022 - 2023

radyasyon algılama sistemleri, Doctorate, 2021 - 2022

Postgraduate

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

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

Supervised 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
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Peer Reviews in Scientific Publications

APPLIED PHYSICS A: MATERIALS SCIENCE AND PROCESSING, SCI Journal, February 2022
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APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, SCI Journal, December 2018
CUMHURİYET ÜNİVERSİTESİ FEN-EDEBİYAT FAKÜLTESİ FEN BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, January 2016
Measurement & Control, SCI Journal, May 2015

Metrics

Publication: 172
Citation (WoS): 682
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H-Index (WoS): 16
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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

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