



# SEMA BİLGE OCAK

## PROF.

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### International Researcher IDs

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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 Al<sub>2</sub>O<sub>3</sub> Metal Oksit Kaplanması, 2022 - Continues
2. GÖKMEN U., BİLGE OCAK S., Özkan Z., Project Supported by Higher Education Institutions, Farklı Oranlarda B4C ve TiO<sub>2</sub> 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<sub>x</sub> ve NO<sub>x</sub> 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/SnO<sub>2</sub>/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/SnO<sub>2</sub> 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 B<sub>4</sub>C/SiC/Al<sub>2</sub>O<sub>3</sub> 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 (B<sub>4</sub>C)**  
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 Al<sub>2</sub>O<sub>3</sub> and SiO<sub>2</sub> 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/Al<sub>2</sub>O<sub>3</sub>/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/Al<sub>2</sub>O<sub>3</sub>/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 Al<sub>2</sub>O<sub>3</sub>/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 Al<sub>2</sub>O<sub>3</sub> 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 SnO<sub>2</sub> 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/SiO<sub>2</sub>/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/SiO<sub>2</sub>/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 B<sub>4</sub>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**

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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 SiO<sub>2</sub> 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 SO<sub>2</sub> ve NO<sub>x</sub>'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 SO<sub>2</sub> and NO<sub>x</sub> 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 (BaSO<sub>4</sub> 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)**  
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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.  
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### Refereed Congress / Symposium Publications in Proceedings



1. **POLİMER ARAYÜZEY KATMANLI METAL/POLİMER/YARIİLETKEN (MPS) YAPILARI ÜZERİNE BETA RADYASYONUNUN C- V VE G/ω- V KARAKTERİSTİKLERİ ÜZERİNE ETKİSİ**  
ABAY Ö., BİLGE OCAK S., GÖKMEN U.  
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2. **INVESTIGATION OF RADIATION SHIELDING PROPERTIES OF SiC REINFORCED AZ91 MATRIX COMPOSITE MATERIALS**  
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9. Uluslararası Mühendislik ve Teknoloji Yönetimi Kongresi, İstanbul, Turkey, 29 April - 01 May 2023, pp.1-6
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SEVEN E., BİLGE OCAK S., ORHAN E.  
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4. **ORGANİK ARAYÜZEY TABAKALI METAL-YARIİLETKEN YAPILARIN ELEKTRİKSEL ÖZELLİKLERİNİN BETA RADYASYONUNA BAĞLI İNCELENMESİ**  
Abay Ö., Ulusoy M., Uyar E., Altındal Ş., Bilge Ocak S.  
8. ULUSLARARASI MÜHENDİSLİK VE TEKNOLOJİ YÖNETİMİ KONGRESİ, İstanbul, Turkey, 08 December 2022, pp.134-138
5. **Mathematical models describing the correlation between electrical conductivity and ash content of adulterated Turkish molasses**  
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6. **Gamma and Neutron Attenuation Behaviors of Composite Materials**  
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9. **Graphen oxide/Gold Nanoparticle Based Electro chemical Sensor Design For Pesticide Residue Analysis**  
Bilge Ocak S., Aslan N.  
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10. **Characterization Of Electrical Properties Of PMMA/PbO Structures**  
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11. **Analyses Of Diode Parameters Using C-V and G-V Characteristics Of Al/PMMA/PbO/P-Si Structures**  
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Efil E., Bayram Ö., Orhan E., Bilge Ocak S.  
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13. **Electrical Characteristics of Al/Graphene/Laser Patterned P Type Si Schottky Diode**  
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16. **ELECTRONIC AND CONDUCTIVITY CHARACTERISTICS OF RUBRENE PENTAGON BASED SCHOTTKY BARRIER DIODES(SBDs):  $\gamma$  GAMMA-RAY IRRADIATION**  
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17. **GAMMA-RAY IRRADIATION IMPACTS ON THE CURRENT-VOLTAGE RELATIONS OF RUBRENE BASED ORGANIC METAL POLYMER SEMICONDUCTORS**  
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18. **Dijital Baskıda Kağıt Yüzey Yapısının Görüntü Kalitesine Etkisinin İncelenmesi**  
ERBAŞ B., ÖZCAN A., GÖKMEN U., BİLGE OCAK S.  
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19. **A comparison the electrical properties of PbO and PMMA/PbO deposited on p-type silicon**  
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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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21. **A study of gamma-ray irradiation effect on electrical characteristic of the metal-polymer-semiconductor structure**  
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23. **Frequency dependent effects before and after gamma-ray irradiation on Al/C42H28/p-Si structure**  
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29. **DOSE RATES AND ACTIVITY CONCENTRATIONS OF NATURAL ROCKS**  
BİLGE OCAK S., UNAL S., YALÇIN M. G., ÖZER Ö.  
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30. **Investigation of Low-Frequency Dependent Characteristics of Al/Maleic Anhydride (MA)/p-Si Schottky Barrier Diode**  
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32. **High Frequency Characteristics of Organic Thin Films on Si**  
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34. **Investigation of Low Frequency- Dependent Characteristics of PBOthin Films**  
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35. **Low Frequency Dependent Dielectric Properties of Al/MA/P-Si Structures**  
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36. **ANALYSIS OF DIODE PARAMETERS USING HIGH FREQUENCY-DEPENTDENT CHARACTERISTICS OF AL/PBO/P-STRUCTURES**  
SELÇUK A. B., GÖKMEN U., ORHAN E., BİLGE OCAK S.  
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37. **High-Frequency Characteristics of MOS structures**  
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38. **Analysis of Low Frequency-Dependent Series Resistance and Interface States of Al/ZnO/P-Structures**  
ORHAN E., TAŞCI U., SELÇUK A. B., BİLGE OCAK S.  
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39. **Characterization of Electrical Properties of Al/ZnO/P-Si Structures**  
BİLGE OCAK S., SELÇUK A. B., ORHAN E., SELÇUK A. H.  
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40. **DESIGN OF CONTROL AND DATA ACQUISITON SOFTWARE FOR A MULTISTRIP DETECTOR SYSTEM**  
Selçuk A. B., Bilge Ocak S., Selçuk A. H.  
Turkish Physical Society 33. International Congres, Muğla, Turkey, 6 - 09 September 2017, pp.95-96
41. **Electrical Analysis of Al/PbO/P-Si Structures**  
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GÖKMEN U., SELÇUK A. B., ORHAN E., BİLGE OCAK S.  
Turkish Physical Society 33. International Congress., 6 - 10 September 2017
43. **Solution of transverse electric Added haronic oscillator and perpendicular magnetic fields to a graphene layer**  
cagatay b., BİLGE OCAK S.  
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44. **Dielectric Properties of Hetero-Structures Based on ZnO**  
BİLGE OCAK S., ORHAN E., SELÇUK A. B.  
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45. **Gamma-Ray Irradiation Effects on Electric Characteristic of Al/C24H12/p-Si Structures**  
AKAY D., SELÇUK A. B., KARADENİZ S., BİLGE OCAK S.  
International Congress on Semiconductor Materials and Devices (ICSMD-2017), 15 - 17 August 2017
46. **Gamma-Ray Irradiation Effects on Electric Characteristics of Al/C24 H12 /P SiStructures**  
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50. **Effect of PBO Nanolayer on Electrical Characteritics of Al PBO P Si Schottky Device**  
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BÜYÜKYILDIZ M., BİLGE OCAK S., ORHAN E.  
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54. **Frequency Dependent Dielectric Propertes of Heterogeneous Structure**  
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Turkish Phsical Society 32 nd International Physics Congress, Muğla, Turkey, 6 - 09 September 2016
55. **Frequency Dependent Dielectric Properties of Heterogeneous Structures**  
ORHAN E., BİLGE OCAK S., TATAROĞLU A.  
Turkish Physical Society 32nd International Physics Congress, 6 - 09 September 2016
56. **Electrical and Dielectric Characteristics of Maleic Anhydride Deposited on P Type Silicon**  
kalmaz o., ORHAN E., BİLGE OCAK S.  
IPCAP 2016, 25 - 27 February 2016
57. **Dielectric Properties of Al Poly methyl methacrylate PMMA p Si Structures at Temperatures Below 300 K**  
Aras G., Orhan E., Bilge Ocak S., Ertuğrul M.

ISTANBUL UNIVERSITYWORLD CONFERENCEON TECHNOLOGY, INNOVATION AND ENTREPRENEURSHIP“ENTREPRENEURSHIP FOR TECHNOLOGYAND INNOVATION - BASED SUSTAINABLE DEVELOPMENT, İstanbul, Turkey, 28 - 30 May 2015, pp.15-30

58. **Experimental Study of Effects of Ultrasonic Waves on Heat Distribution in Gaseous Medium**  
Köprü M., Orhan E., Bilge Ocak S.  
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59. **Radon Gazının Etkileri**  
Bilge Ocak S.  
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**  
Bilge Ocak S., Orhan E.  
0. nanoscience and nanotechnology conferance, Erzurum, Turkey, 24 - 28 June 2013, pp.15-18
62. **Squeezing of the two-photon Rabi Hamiltonian**  
Bilge Ocak S.  
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**  
Bilge Ocak S.  
III. Ulusal Nükleer Bilimler ve Teknolojileri Kongresi, Kayseri, Turkey, 15 - 17 October 2003, pp.1-8
64. **Study of Plasma-based dtack Gases cleaning Technolgy to remove SOxand NOX emission from Coal – Fired Power Plants in Turkey**  
Bilge Ocak S.  
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	<b>Head of Department</b>	Gazi University, Fen Bilimleri Enstitüsü, İleri Teknolojiler
2016 - 2019	<b>Head of Department</b>	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

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

APPLIED PHYSICS A: MATERIALS SCIENCE AND PROCESSING, SCI Journal, November 2021

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

APPLIED PHYSICS A: MATERIALS SCIENCE AND PROCESSING, SCI Journal, May 2021

APPLIED PHYSICS A: MATERIALS SCIENCE AND PROCESSING, SCI Journal, April 2021

Physica Scripta, SCI Journal, March 2021

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

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

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

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

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

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

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: 166

Citation (WoS): 478

Citation (Scopus): 478

H-Index (WoS): 14

H-Index (Scopus): 14

## 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