

# SEMA BİLGE OCAK

## PROF.

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### Learning Knowledge

Doctorate  
1995 - 2000

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

Post Graduate  
1992 - 1995

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

Under Graduate  
1988 - 1992

Ankara University, Fen Fakültesi, Fizik Bölümü, Turkey

### Dissertations

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

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

### Academic Titles / Tasks

Professor  
2017 - Continues

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

Associate Professor  
2014 - Continues

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

Associate Professor  
2011 - 2013

Gazi University, Atatürk Meslek Yüksekokulu

Expert  
2000 - 2011

Diğer (Kurumlar,hastaneler Vb.), Kurumlar

Research Assistant  
1993 - 2000

Ankara University, Fen Fakültesi, Fizik Bölümü

### Supported Projects

## Supported Projects

1. BİLGE OCAK S., Project Supported by Higher Education Institutions, Organik /İnorganik yarıiletken malzemelerin hazırlanması ve karakterizasyonu, 2012 - 2014
2. BİLGE OCAK S., Project Supported by Higher Education Institutions, Oksit filmlerin optiksel ve elektriksel özelliklerinin araştırılması, 2012 - 2014

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

1. **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., BİLGE OCAK S.  
Materials Chemistry and Physics, vol.258, 2021 (Journal Indexed in SCI Expanded)
2. **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., BİLGE OCAK S., TATAROĞLU A.  
VACUUM, vol.181, 2020 (Journal Indexed in SCI)
3. **Investigation of the Effect of Hydrothermal Waters on Radionuclide Activity Concentrations in Natural Marble with Multivariate Statistical Analysis**  
YALÇIN F., Unal S., YALÇIN M. G. , AKTÜRK Ö., BİLGE OCAK S., ÖZMEN S. F.  
SYMMETRY-BASEL, vol.12, no.8, 2020 (Journal Indexed in SCI)
4. **Electrical properties of Graphene/Silicon structure with Al<sub>2</sub>O<sub>3</sub> interlayer**  
Kaymak N., BAYRAM Ö., TATAROĞLU A., BİLGE OCAK S., ORHAN E.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.12, pp.9719-9725, 2020 (Journal Indexed in SCI)
5. **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 (Journal Indexed in SCI)
6. **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 (Journal Indexed in SCI)
7. **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 (Journal Indexed in SCI)
8. **Effects of temperature and frequency on capacitance and conductance characteristics of zinc-oxide based MIS-Structure**  
Kaymak N., Efil E., Seven E., TATAROĞLU A., BİLGE OCAK S., ORHAN E.  
PHYSICA B-CONDENSED MATTER, vol.576, 2020 (Journal Indexed in SCI)
9. **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 (Journal Indexed in SCI)
10. **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 (Journal Indexed in SCI)
11. **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 (Journal Indexed in SCI)

12. **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 (Journal Indexed in SCI)
13. **Effect of gamma-ray irradiation on the electrical characteristics of Al/C24H12/p-Si nano-structure**  
AKAY D., Karadeniz S., Selcuk A. B. , BİLGE OCAK S.  
PHYSICA SCRIPTA, vol.93, no.9, 2018 (Journal Indexed in SCI)
14. **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 (Journal Indexed in SCI)
15. **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 (Journal Indexed in SCI)
16. **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 (Journal Indexed in SCI)
17. **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 (Journal Indexed in SCI)
18. **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 (Journal Indexed in SCI)
19. **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 (Journal Indexed in SCI)
20. **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 (Journal Indexed in SCI)
21. **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 (Journal Indexed in SCI)
22. **Multivariate Statistics and Heavy Metals Contamination in Beach Sediments from The Sakarya Canyon, Turkey**  
YALÇIN M. G. , Simsek G., BİLGE OCAK S., YALÇIN F., Kalayci Y., Karaman M. E.  
ASIAN JOURNAL OF CHEMISTRY, vol.25, no.4, pp.2059-2066, 2013 (Journal Indexed in SCI)
23. **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 (Journal Indexed in SCI)
24. **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 (Journal Indexed in SCI)
25. **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 (Journal Indexed in SCI)
26. **High frequency characteristics of tin oxide thin films on Si**  
Yueksel O. F. , Ocak S., Selcuk A. B.  
VACUUM, vol.82, no.11, pp.1183-1186, 2008 (Journal Indexed in SCI)
  27. **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 (Journal Indexed in SCI)
  28. **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 (Journal Indexed in SCI)
  29. **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 (Journal Indexed in SCI)
  30. **(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 (Journal Indexed in SCI)
  31. **Supersymmetric analysis of a spin Hamiltonian model**  
Demircioglu B., Ocak S., Kuru S.  
PHYSICS LETTERS A, vol.353, no.1, pp.34-39, 2006 (Journal Indexed in SCI)
  32. **Two-mode bosonic squeezing and symmetry breaking**  
Ocak S.  
PHYSICS LETTERS A, vol.335, pp.402-407, 2005 (Journal Indexed in SCI)
  33. **The effective potential of squeezed spin states**  
Ocak S., Altanhan T.  
PHYSICS LETTERS A, vol.308, no.1, pp.17-22, 2003 (Journal Indexed in SCI)
  34. **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 (Journal Indexed in SCI)

## Articles Published in Other Journals

1. **Investigation of Radiation Attenuation Properties of Al-Cu Matrix Composites Reinforced by Different Amount of B<sub>4</sub>C Particles**  
GÖKMEN U., Özkan Z., JAMALGOLZARİ L. E. , BİLGE OCAK S.  
Journal of Boron, vol.5, no.3, pp.124-130, 2020 (Other Refereed National Journals)
2. **An Analyses of Schottky Structure with Lead Monoxide Layer**  
BİLGE OCAK S., GÖKMEN U.  
Composite Materials Research, 2019 (Refereed Journals of Other Institutions)
3. **Investigation of low-frequency dependent characteristics of Al/Maleic Anhydride (MA)/p-Si Schottky barrier diode**  
Kaymak N., Orhan E., Bilge Ocak S., Selçuk A. B.  
AIP Conference Proceedings, vol.1935, no.1, 2018 (Refereed Journals of Other Institutions)
4. **Experimental Study of Effects of Ultrasonic Waves on Heat Distribution in Gaseous Medium**  
Köprü M., ORHAN E., BİLGE OCAK S.  
Procedia - Social and Behavioral Sciences, vol.195, pp.2849-2858, 2015 (Refereed Journals of Other Institutions)
5. **Dielectric Properties of Al Poly methyl methacrylate PMMA p Si Structures at Temperatures Below**

## 300 K

aras G., ORHAN E., Selçuk A., BİLGE OCAK S., ERTUĞRUL M.

Procedia - Social and Behavioral Sciences, vol.195, pp.1740-1745, 2015 (Refereed Journals of Other Institutions)

### 6. Influence of alpha particle irradiation on oxide layer schottky of structures

BİLGE OCAK S., SELÇUK A. H., Selçuk A., AKSÖZ S.

IOSR (IOSR-JAGG), vol.1, pp.10-13, 2013 (Refereed Journals of Other Institutions)

### 7. Gaussian Distribution on Electrical characteristics of Al SiO<sub>2</sub> p Si Structures

BİLGE OCAK S., KARADENİZ S., Selçuk A.

American Journal of Materials Science, pp.125-130, 2012 (Refereed Journals of Other Institutions)

## Books & Book Chapters

### 1. Comparison Of Electronic Properties Of Poly (Methyl Methacrylate) With The Double Heterostructure (Pmma/ Lead Oxides)

AKAY D., GÖKMEN U., BİLGE OCAK S.

in: Engineering On Energy Materials, Akay Defne, Editor, Iksad Publications, Ankara, pp.3-28, 2020

### 2. SICAK PRESLEME YÖNTEMİ İLE ÜRETİLMİŞ B<sub>4</sub>C PARÇACIK TAKVİYELİ MAGNEZYUM MATRİSLİK KOMPOZİT MALZEMENİN RADYOAKTİF ÖZELLİKLERİNİN TEORİK OLARAK İNCELENMESİ

GÖKMEN U., YILMAZ Ö., BİLGE 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

### 3. A comparison the electrical properties of PbO and PMMA/PbO deposited on p-type silicon

EFİL E., KAYMAK N., GÖKMEN U., ORHAN E., BİLGE OCAK S., SELÇUK A. B.

in: ISMS Book, Prof. Dr. Serdar SALMAN ve Prof. Dr. Zafer GÖLEN, Editor, Gece Kitaplığı, Ankara, pp.95-101, 2018

### 4. Gamma-ray irradiation investigation on the electrical properties of PMMA/ZnO deposited on p-type silicon

KAYMAK N., EFİL E., GÖKMEN U., ORHAN E., BİLGE OCAK S., SEVEN E.

in: ISMS Book, Prof. Dr. Serdar SALMAN ve Prof. Dr. Zafer GÖLEN, Editor, Gece Kitaplığı, Ankara, pp.385-391, 2018

## Refereed Congress / Symposium Publications in Proceedings

### 1. Analyses Of Diode Parameters Using C-V and G-V Characteristics Of Al/PMMA/PbO/P-Si Structures

BİLGE OCAK S., AKAY D., GÖKMEN U.

türk fizik derneği 35. uluslararası fizik kongresi, 5 June - 09 September 2019

### 2. Characterization Of Electrical Properties Of PMMA/Pbo Structures

BİLGE OCAK S., AKAY D., GÖKMEN U.

türk fizik derneği 35. uluslararası fizik kongresi, 5 - 09 September 2019

### 3. Capacitance-Voltage and Conductance-Voltage Characteristics of Schottky Diode Based Graphene Nanosheet

EFİL E., BAYRAM Ö., ORHAN E., BİLGE OCAK S.

IATENS'19, 4 - 06 October 2019

### 4. Electrical Characteristics of Al/Graphene/Laser Patterned P Type Si Schottky Diode

KAYMAK N., BAYRAM Ö., ORHAN E., BİLGE OCAK S.

IATENS'19, 4 - 06 October 2019

### 5. PECVD Grown Graphen Nanosheets onto Laser Patterned P Type Si

KAYMAK N., BAYRAM Ö., BİLGE OCAK S., ORHAN E.

IATENS'19, 4 - 06 October 2019

### 6. Current-Voltage Characteristics of Graphene Nanosheet Schottky Diode

EFİL E., BAYRAM Ö., ORHAN E., BİLGE OCAK S.

IATENS'19, 4 - 06 October 2019

7. **ELECTRONIC AND CONDUCTIVITY CHARACTERISTICS OF RUBRENE PENTAGON BASED SCHOTTKY BARRIER DIODES(SBDs): 輻射線 GAMMA-RAY IRRADIATION**  
BİLGE OCAK S., AKAY D., GÖKMEN U.  
7. EUROPEAN CONFERENCE ON RENEWABLE ENERGY SYSTEMS, 10 - 12 June 2019
8. **GAMMA-RAY IRRADIATION IMPACTS ON THE CURRENT-VOLTAGE RELATIONS OF RUBRENE BASED ORGANIC METAL-POLYMER SEMICONDUCTORS**  
BİLGE OCAK S., AKAY D., GÖKMEN U.  
7. EUROPEAN CONFERENCE ON RENEWABLE ENERGY SYSTEMS, 10 - 12 June 2019
9. **Dijital Baskıda Kağıt Yüzey Yapısının Görüntü Kalitesine Etkisinin İncelenmesi**  
ERBAŞ B., ÖZCAN A., GÖKMEN U., BİLGE OCAK S.  
3rd International Symposium on Innovative Approaches in Scientific Studies, Ankara, Turkey, 19 - 21 April 2019, vol.1, pp.264-275
10. **A comparison the electrical properties of PbO and PMMA/PbO deposited on p-type silicon**  
EFİL E., KAYMAK N., GÖKMEN U., ORHAN E., BİLGE OCAK S., SELÇUK A. B.  
International Symposium on Multidisciplinary Studies (ISMS2018), 16 - 17 November 2018
11. **Gamma-ray irradiation investigation on the electrical properties of PMMA/ZnO deposited on p-type silicon**  
KAYMAK N., EFİL E., GÖKMEN U., ORHAN E., BİLGE OCAK S., SEVEN E.  
International Symposium on Multidisciplinary Studies (ISMS 2018), 16 - 17 November 2018
12. **A study of gamma-ray irradiation effect on electrical characteristic of the metal-polymer-semiconductor structure**  
EFİL E., SELÇUK A. B., KAYMAK N., BİLGE OCAK S., ORHAN E., ELENUR S.  
Materials Science and Advanced Nanotechnologies for Next Generation (MSNG2018), 16 - 17 October 2018, pp.196-198
13. **Investigation of gamma-ray irradiation effects on dielectric properties of rubrene deposited on p-type silicon**  
KAYMAK N., EFİL E., SEVEN E., SELÇUK A. B., ORHAN E., BİLGE OCAK S.  
Materials Science and Advanced Nanotechnologies for Next Generation (MSNG2018), 4 - 06 October 2018, pp.193-195
14. **Frequency dependent effects before and after gamma-ray irradiation on Al/C42H28/p-Si structure**  
KAYMAK N., EFİL E., AKAY D., ORHAN E., BİLGE OCAK S., SEVEN E.  
Materials Science and Advanced Nanotechnologies for Next Generation (MSNG2018), 16 - 17 October 2018, pp.199-201
15. **İNCONEL 718 SÜPERALAŞIM TOZLARININ AKIŞ DAVRANIŞ ÖZELLİKLERİNİN İNCELENMESİ**  
GÖKMEN U., BİLGE OCAK S.  
8th International Conference of Strategic Research on Scientific Studies and Education 2018, Viyana, Austria, 11 - 13 May 2018, vol.1, pp.89-95
16. **DOSE RATES AND ACTIVITY CONCENTRATIONS OF NATURAL ROCKS**  
BİLGE OCAK S., UNAL S., YALÇIN M. G., ÖZER Ö.  
9th International Symposium of the Eastern Mediterranean Geology (ISEMG 2018), Antalya, Turkey, 7 - 11 May 2018
17. **Investigation of Low-Frequency Dependent Characteristics of Al/Maleic Anhydride (MA)/p-Si Schottky Barrier Diode**  
KAYMAK N., ORHAN E., OCAK S., SELÇUK A. B.  
33rd International Physics Congress of the Turkish-Physical-Society (TPS), Bodrum, Turkey, 6 - 10 September 2017, vol.1935
18. **High-Frequency Characteristics of MOS structures**  
EFİL E., ORHAN E., SELÇUK A. B., BİLGE OCAK S.  
Turkish Physical Society 33. International Congress., 6 - 10 September 2017
19. **Solution of transverse electric Added harmonic oscillator and perpendicular magnetic fields to a**

**graphene layer**

cagatay b., BİLGE OCAK S.

Turkish Physical Society 33. International Congress, 6 - 10 September 2017

20. **Low Frequency Dependent Dielectric Properties of Al/MA/P-Si Structures**  
KAYMAK N., SELÇUK A. B. , ORHAN E., BİLGE OCAK S.  
Turkish Physical Society 33. International Congress, 6 - 10 September 2017
21. **Investigation of Electrical Characteristics of Al/Maleic Anhydride/P-Si by Using Different Methods**  
GÖKMEN U., SELÇUK A. B. , ORHAN E., BİLGE OCAK S.  
Turkish Physical Society 33. International Congress., 6 - 10 September 2017
22. **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.  
Turkish Physical Society 33. International Congress., 6 - 10 September 2017
23. **High Frequency Characteristics of Organic Thin Films on Si**  
TAŞCI U., SELÇUK A. B. , ORHAN E., BİLGE OCAK S.  
Turkish Physical Society 33. International Congress., 6 - 10 September 2017
24. **Investigation of Low Frequency- Dependent Characteristics of PBOThin Films**  
SELÇUK A. B. , EFİL E., ORHAN E., BİLGE OCAK S.  
urkish Physical Society 33. International Congress., 6 - 10 September 2017
25. **Electrical Analysis of Al/PbO/P-Si Structures**  
SELÇUK A. B. , ORHAN E., KAYMAK N., BİLGE OCAK S.  
Turkish Physical Society 33. International Congress, 6 - 10 September 2017
26. **Characterization of Electrical Properties of Al/ZnO/P-Si Structures**  
BİLGE OCAK S., SELÇUK A. B. , ORHAN E., SELÇUK A. H.  
Turkish Physical Society 33. International Congress, 6 - 10 September 2017
27. **Desing and Fabrication of Green Laser Designater Prototype**  
DEVELİ B., TİKEN M., BERBEROĞLU H., BİLGE OCAK S., ORHAN E.  
Turkish Physical Society 33. International Congress, 6 - 10 September 2017
28. **DESIGN OF CONTROL AND DATA ACQUISITON SOFTWARE FOR A MULTISTRIP DETECTOR SYSTEM**  
SELÇUK A. B. , BİLGE OCAK S., SELÇUK A. H.  
6-9eylul 2017, 6 - 09 September 2017
29. **Design of a new radiation chamber for multistript detector system**  
SELÇUK A. B. , SELÇUK A. H. , BİLGE OCAK S.  
Turkish Physical Society 33. International Congress, 6 - 10 September 2017
30. **ANALYSIS OF DIODE PARAMETERS USING HIGH FREQUENCY-DEPENTDENT CHARACTERISTICS OF AL/PBO/P-STRUCTURES**  
SELÇUK A. B. , GÖKMEN U., ORHAN E., BİLGE OCAK S.  
TURKİSH PHYSIAL SOCIETY 33 . İNTERNATİONALPHYSİCS CONGRESS, 6 - 10 September 2017
31. **Dielectric Properties of Hetero-Structures Based on ZnO**  
BİLGE OCAK S., ORHAN E., SELÇUK A. B.  
Turkish Physical Society 33. International Congress, 6 - 10 September 2017
32. **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
33. **Investigation of Frequency Dependent Effects Before And After Gamma-RayIrradiation on Al/C24 H12 /P-Si Structures**  
AKAY D., SELÇUK A. B. , KARADENİZ S., BİLGE OCAK S.  
INTERNATIONAL CONGRESS ON SEMICONDUCTOR MATERIALS AND DEVICES, 17 - 19 August 2017
34. **Gamma-Ray Irradiation Effects on Electric Characteristics of Al/C24 H12 /P SiStructures**  
AKAY D., SELÇUK A. B. , KARADENİZ S., BİLGE OCAK S.  
INTERNATIONAL CONGRESS ON SEMICONDUCTOR MATERIALS AND DEVICES, 17 - 19 August 2017

35. **Frequency Dependent Dielectric Properties of Heterogeneous Structure**  
ORHAN E., BİLGE OCAK S., TATAROĞLU A.  
Turkish Physical Society 32 nd International Physics Congress, Muğla, Turkey, 6 - 09 September 2016
36. **Effect of PBO Nanolayer on Electrical Characteristics of Al PBO P Si Schottky Device**  
BİLGE OCAK S., ORHAN E., SELÇUK A. B.  
Turkish Physical Society 32 nd International Physics Congress, 6 - 09 September 2016
37. **Determination of Average Fluorescence Yields of N Shell for Elements 38 101**  
BÜYÜKYILDIZ M., YAVUZ İ., BİLGE OCAK S., ORHAN E.  
Turkish Physical Society 32 nd International Physics Congress, Muğla, Turkey, 6 - 09 September 2016
38. **effect of pbo nanolayer on electrical characteristics of AL PBO P Si schottky device**  
BİLGE OCAK S., ORHAN E., selcuk A. b.  
Turkish physical society 32. international physics Congress, 6 - 09 September 2016
39. **Determination of average fluorescence yields of Nshell for elements 38 Z 101**  
BÜYÜKYILDIZ M., BİLGE OCAK S., ORHAN E.  
Turkish physical society 32. international physics Congress, 6 - 09 September 2016
40. **Frequency dependent dielectric properties of AL PBO P Si schottky device**  
BİLGE OCAK S., ORHAN E., cibir i.  
Turkish physical society 32. international physics Congress, 6 - 09 September 2016
41. **Frequency Dependent Dielectric Properties of Al PBO p Si Schottky Device**  
BİLGE OCAK S., ORHAN E., CIBİR İ.  
Turkish Physical Society 32 nd International Physics Congress, 6 - 09 September 2016
42. **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
43. **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
44. **Dielectric Properties of Al Poly methyl methacrylate PMMA p Si Structures at Temperatures Below 300 K**  
Aras G., ORHAN E., BİLGE OCAK S., ERTUĞRUL M., Selçuk B.  
ISTANBUL UNIVERSITYWORLD CONFERENCEON TECHNOLOGY, INNOVATION AND ENTREPRENEURSHIP“ENTREPRENEURSHIP FOR TECHNOLOGYAND INNOVATION - BASED SUSTAINABLE DEVELOPMENT, 28 - 30 May 2015
45. **Experimental Study of Effects of Ultrasonic Waves on Heat Distribution in Gaseous Medium**  
Köprü M., ORHAN E., BİLGE OCAK S.  
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## Professional Experience

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2016 - 2019	<b>Head of Department</b>	Gazi University, Teknik Bilimler Meslek Yüksekokulu, Elektrik Ve Enerji Bölümü
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## Courses

Nükleer radyasyon dedektörleri, Under Graduate, 2016 - 2017



## Advising Theses

BİLGE OCAK S., Elektrofotografik baskı sisteminde basılmış kağıtların pilyaj ve gofre yapılabilirliklerinin incelenmesi, Post Graduate, B.ERBAŞ(Student), 2019

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

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

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

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

BİLGE OCAK S., Investigation of electricity properties of metal oxidesemiconductor doped lead oxide, Post Graduate, İ.CIBİR(Student), 2017

BİLGE OCAK S., Investigation of electricity properties of metal oxidesemiconductor doped lead oxide, İ.Cıbir(Student), 2017

BİLGE OCAK S., Interface Characterization Of Mıs Structures, Post Graduate, R.OKUR(Student), 2016

## Citations

Total Citations (WOS):197

h-index (WOS):8

## Research Areas

Physics