

# ZEYNEP GÜVEN ÖZDEMİR

## PROF.

Email : zguven@yildiz.edu.tr

### International Researcher IDs

ORCID: 0000-0001-5085-5814

ScopusID: 12787089000

Yoksis Researcher ID: 174080

## Learning Knowledge

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Doctorate 2001 - 2007	Marmara University, Institute For Graduate Studies İn Pure And Applied Sciences, Fizik, Turkey
Postgraduate 1998 - 2001	Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Fizik, Turkey
Undergraduate 1993 - 1998	Yildiz Technical University, Faculty Of Arts & Science, Fizik, Turkey

## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, Determination of the electrical and magnetic properties of the mercury based copper oxide layered high temperature superconductors , Marmara University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, 2007

Postgraduate, Curved momentum spaces and noncommutative differential calculus, Yildiz Technical University, Faculty of Arts & Science, Department of Physics, 2001

## Academic Titles / Tasks

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Professor 2022 - Continues	Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics
Associate Professor 2015 - 2022	Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics
Research Assistant PhD 2007 - 2015	Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics
Research Assistant 2000 - 2007	Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics

## Supported Projects

1. GÜVEN ÖZDEMİR Z., ŞAHİN A. N., Project Supported by Higher Education Institutions, Bazı Nanoyapıların Gaz Algilama Özellikleri ile Optik Özelliklerinin Arasındaki İlişkinin İncelenmesi, 2024 - Continues
2. GÜVEN ÖZDEMİR Z., Şensu A., Project Supported by Higher Education Institutions, Synergetic Effect of Micro and Nanoparticle Mixture Addition on Mechanical and Electrical Properties of Polyvinylidene Fluoride / Mikro ve Nano Parçacık Karışımı İlavesinin Poliviniliden Florürün Mekanik ve Elektriksel Özellikleri Üzerindeki Sinerjik Etkisi, 2023 - Continues
3. GÜVEN ÖZDEMİR Z., ESMER K., ŞAHİN N., Project Supported by Higher Education Institutions, Farklı Çevre Koşullarında Polietilen Bazlı Bi2O3 ile Güçlendirilmiş Nanokompozit Şeritlerin Dielektrik, Mekanik Özelliklerinin İncelenmesi ve Yapay Zekâ ile Tahmini, 2021 - 2023
4. GÜVEN ÖZDEMİR Z., BEYAZAY E., KILIÇ M., İÇELLİ O., ALKAN Ü., KARABUL Y., Project Supported by Higher Education Institutions, Polipropilen/Bi2O3 ve Polipropilen/WO3 Nano Kompozit Filmlerin Geliştirilmesi Elektrik ve Mekanik Özelliklerinin Tespiti, 2020 - 2022
5. GÜVEN ÖZDEMİR Z., Beyazay E., Project Supported by Higher Education Institutions, X-IŞINI VE DÜŞÜK ENERJİLİ GAMA IŞINLARI ZIRHLAMA ÖZELLİĞİNE SAHİP ENERJİ DEPOLAYICI POLİMER TEMELLİ NANO KOMPOZİTLERİN ÜRETİMİ, 2019 - 2022
6. Kılıç M., Beyazay E., Güven Özdemir Z., Şahin N., Karabul Y., Alkan Ü., Project Supported by Higher Education Institutions, Bazı Termoplastik Polimerlerin Elektrik ve Mekanik Özelliklerinin Çeşitli Takviye Malzemeleri ve Radyasyon ile Geliştirilmesi, 2020 - 2021
7. Beyazay E., Güven Özdemir Z., Project Supported by Higher Education Institutions, X-Işını ve Düşük Enerjili Gama Işınları Zırhlama Özelliğine Sahip Polimer Temelli Nano Kompozitlerin Üretimi, 2019 - 2021
8. Aslan Çataltepe Ö., Güven Özdemir Z., Kılıç M., Project Supported by Higher Education Institutions, Farklı Oksijen Oranlarına Sahip Evropiyum ve Cıva Bazlı Oksit Malzemelerin Manyetik ve Dielektrik Özelliklerinin Çeşitli Uygulamalara Yönelik İncelenmesi, 2018 - 2020
9. GÜVEN ÖZDEMİR Z., KILIÇ M., KAHYA N. D., ÇAKIR Ö., SÜNGÜ MISIRLIOĞLU B., Project Supported by Higher Education Institutions, BAKIR FERRİT TEMELLİ NANO KOMPOZİTLERİN ÜRETİMİ, DİELEKTRİK ve MANYETİK ÖZELLİKLERİNİN KARAKTERİZASYONLARI, 2017 - 2020
10. Güven Özdemir Z., Erdönmez S., Project Supported by Higher Education Institutions, POLİTİYOFEN, POLİPİROL VE POLİİNDOL ESASLI KOMPOZİTLERİN SENTEZİ, YAPISAL VE ELEKTRİKSEL ÖZELLİKLERİNİN BELİRLENMESİ, 2016 - 2019
11. İÇELLİ O., GÜVEN ÖZDEMİR Z., KILIÇ M., KARABUL Y., Project Supported by Higher Education Institutions, YÜKSEK RADYASYON ZIRHLAMA ÖZELLİĞİNE SAHİP AĞIR METAL OKSİT CAMLARIN ÜRETİLMESİ VE OPTİMİZASYONUN SAĞLANMASI, 2015 - 2018
12. GÜVEN ÖZDEMİR Z., YILMAZ CANLI N., Project Supported by Higher Education Institutions, Evropiyum Bazlı Yüksek Sıcaklık Süperiletkenlerinin Dielektrik Özelliklerinin Tespiti Ve Teknolojik Önemi, 2014 - 2017
13. YILMAZ CANLI N., GÜVEN ÖZDEMİR Z., Project Supported by Higher Education Institutions, Sivi Kristallerin Dielektrik Parametrelerinin Belirlenmesi, 2014 - 2016
14. Onbaşı Ü., Güven Özdemir Z., Aslan Ö., Altındal A., Keskin S., Project Supported by Higher Education Institutions, Yüksek Sıcaklık Süperiletkenlerinde Rölativistik Olan ve Olmayan Bölgelerde Simetri Kırılmalarının Elektrik ve Magnetik Yöntemlerle Uygulamaya Yönelik İncelenmesi, 2005 - 2009

## Awards

1. Güven Özdemir Z., 1 Ekim 2014-31 Aralık 2015 tarihleri arasında YTÜ Fen-Edebiyat Fakültesi Öğretim elemanları arasında yazar ağırlıklı makale puan sıralamasında 3.lük derecesi, Yıldız Teknik Üniversitesi Rektörlüğü, May 2017
2. Güven Özdemir Z., Bilimsel Yayınları Teşvik Ödülü, Tübitak, May 2017
3. Güven Özdemir Z., Biimsel Yayınları Teşvik Ödülü, Tübitak, February 2016
4. Güven Özdemir Z., Yıldız Teknik Üniversitesi Rektörlüğü Akademik Teşvik Ödülü, Yıldız Teknik Üniversitesi Rektörlüğü, January 2013

5. Güven Özdemir Z., Yıldız Teknik Üniversitesi Rektörlüğü Akademik Teşvik Ödülü, Yıldız Teknik Üniversitesi Rektörlüğü , November 2011
6. Güven Özdemir Z., Bilimsel Yayınları Teşvik Ödü, Tübitak, November 2009
7. Güven Özdemir Z., Bilimsel Yayınları Teşvik Ödülü, Tübitak, July 2009
8. Güven Özdemir Z., Yıldız Teknik Üniversitesi Rektörlüğü Akademik Teşvik Ödülü, Yıldız Teknik Üniversitesi Rektörlüğü , October 2007
9. Güven Özdemir Z., Bilimsel Yayınları Teşvik Ödülü, Tübitak, January 2007
10. Güven Özdemir Z., Marmara Üniversitesi Fen Bilimleri Enstitüsü Takdir Belgesi, Marmara Üniversitesi Fen Bilimleri Enstitüsü, October 2006

## Jury Memberships

Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, July, 2019

Doctorate, Doctorate, Yıldız Teknik Üniversitesi, March, 2017

## Published journal articles indexed by SCI, SSCI, and AHCI

1. **LDPE/Bi<sub>2</sub>O<sub>3</sub> nanocomposites: Enhanced mechanical, dielectric, and optical properties**  
ŞAHİN N., BEYAZAY E., KARABUL Y., KILIÇ M., ESMEK K., GÜVEN ÖZDEMİR Z.  
Journal of Applied Polymer Science, vol.141, no.12, 2024 (SCI-Expanded)
2. **The evaluation of the effect of metal oxide and ferroelectric ceramic additives on the structural and dielectric properties of epoxy matrix**  
ŞAHİN N., KARABUL Y., KILIÇ M., GÜVEN ÖZDEMİR Z., ESMEK K.  
Polymer International, vol.73, no.1, pp.9-20, 2024 (SCI-Expanded)
3. **BaO Nanoparticle Contribution To PVA On The Way To Become A More Functional Material**  
Beyazay E., Şahin N., Karabul Y., Kılıç M., Güven Özdemir Z.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.140, pp.1-12, 2023 (SCI-Expanded)
4. **Analyses of negative real permittivity behavior, AC conductivity and impedance properties of (Y<sub>x</sub>Eu<sub>1-x</sub>)Ba<sub>2</sub>Cu<sub>3</sub>O<sub>6.5</sub> ceramics**  
İç S., Kalkan N. E., Karabul Y., Özdemir Z. G., Kılıç M.  
Ceramics International, vol.49, no.14, pp.23546-23557, 2023 (SCI-Expanded)
5. **Synergistic effect achieved in ionizing radiation shielding with epoxy-based composites blended with nature-inspired micro- and nanoparticle mixtures**  
Kalkan N. E., İç S., Karabul Y., Güven Özdemir Z., Kılıç M.  
European Physical Journal Plus, vol.138, no.7, 2023 (SCI-Expanded)
6. **Multifunctional PCz/BaO nanocomposites: Ionizing radiation shielding ability and enhanced electric conductivity**  
BEYAZAY E., KARABUL Y., Korkut S. E., KILIÇ M., Özdemir Z.  
Progress in Nuclear Energy, vol.155, 2023 (SCI-Expanded)
7. **Geochemical and energy storage properties of natural stones belong to limestone and Fe-shale families**  
KARABUL Y., KILIÇ M., Ozdemir Z.  
PHYSICS AND CHEMISTRY OF THE EARTH, vol.128, 2022 (SCI-Expanded)
8. **Improving the electrical properties of poly[2-methoxy-5-(2-ethylhexyloxy)-1,4-phenylenevinylene] by doping with camphor sulfonic acid for energy storage applications**  
Uludag C., KARABUL Y., KILIÇ M., KOÇ K., Alveroğlu Durucu E., Ozdemir Z.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.139, no.39, 2022 (SCI-Expanded)
9. **PCz/BaO nanocomposites: Synthesis, characterization, and energy storage properties**  
BEYAZAY E., KARABUL Y., KILIÇ M., EKEN KORKUT S., Ozdemir Z.

- PHYSICA B-CONDENSED MATTER, vol.634, 2022 (SCI-Expanded)
10. **Dielectric properties of P3HT/CSA composites for energy storage applications**  
Uludag C., Alveroğlu Durucu E., KOÇ K., KARABUL Y., KILIÇ M., Ozdemir Z.  
PHYSICA B-CONDENSED MATTER, vol.626, 2022 (SCI-Expanded)
  11. **Radiation shielding performances of Na<sub>2</sub>SiO<sub>3</sub> based low-cost micro and nano composites for diagnostic imaging**  
Bozkurt M., ŞAHİN N., KARABUL Y., KILIÇ M., Özdemir Z.  
PROGRESS IN NUCLEAR ENERGY, vol.143, 2022 (SCI-Expanded)
  12. **Na<sub>2</sub>Si<sub>3</sub>O<sub>7</sub>/Ag micro and nano-structured glassy composites: The experimental and MCNP simulation surveys of their radiation shielding performances**  
Çağlar M., Karabul Y., Kılıç M., Güven Özdemir Z., İçelli O.  
Progress In Nuclear Energy, vol.139, pp.1-13, 2021 (SCI-Expanded)
  13. **Low cost radiation shielding material for low energy radiation applications: Epoxy/Yahyali Stone composites**  
Sahin N., Bozkurt M., KARABUL Y., KILIÇ M., Ozdemir Z. G.  
PROGRESS IN NUCLEAR ENERGY, vol.135, 2021 (SCI-Expanded)
  14. **Structural characterization and dielectric parameters of polyindole/WO<sub>3</sub> nanocomposites**  
Erdonmez S., Karabul Y., Kılıç M., Ozdemir Z. G., Esmer K.  
POLYMER COMPOSITES, vol.42, no.3, pp.1347-1355, 2021 (SCI-Expanded)
  15. **Dielectric and magnetic properties of CuFe<sub>2</sub>O<sub>4</sub>/ CuO nanocomposites**  
Kılıç M., Kahya N. D., Süngü Mısırlıoğlu B., Çakır Ö., Güven Özdemir Z.  
Ferroelectrics, vol.571, no.1, pp.183-189, 2021 (SCI-Expanded)
  16. **Mechanical and dielectric behavior of LDPE/Bi-1212 films**  
Alkan U., Kilic M., Karabul Y., Ozdemir Z.  
MATERIALS TESTING, vol.62, no.9, pp.913-920, 2020 (SCI-Expanded)
  17. **Negative real permittivity in (Bi<sub>0.3</sub>Eu<sub>0.7</sub>)Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>6.5</sub> ceramic**  
Kılıç M., Özdemir Z., Karabul Y., Karataş Ö., Çataltepe Ö. A.  
Physica B: Condensed Matter, vol.584, 2020 (SCI-Expanded)
  18. **A transition in the electrical conduction mechanism of CuO/CuFe<sub>2</sub>O<sub>4</sub> nanocomposites**  
Ozdemir Z. G., Kılıç M., Karabul Y., Misirlioglu B., Çakır Ö., Kahya N. D.  
JOURNAL OF ELECTROCERAMICS, vol.44, pp.1-15, 2020 (SCI-Expanded)
  19. **The mechanical and dielectric properties of polypropylene reinforced with BiSr<sub>2</sub>CaCu<sub>2</sub>O<sub>6.5</sub> ceramic**  
Erdönmez S., Güven Özdemir Z.  
POLYMER BULLETIN, vol.77, no.4, pp.1793-1812, 2020 (SCI-Expanded)
  20. **Estimation of dielectric parameters of LDPE/PANI composite films depending on temperature and PANI additive concentration by GRNN**  
KILIÇ M., Eyecioglu O., Ozdemir Z., Alkan U.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.35, no.2, pp.1077-1087, 2020 (SCI-Expanded)
  21. **MWCNT induced negative real permittivity in a copolyester of BisphenolA with terephthalic and isophthalic acids**  
Güven Özdemir Z., Şakar D., Kavak P., Pionteck J., Pötschke P., Voit B., Süngü Mısırlıoğlu B.  
MATERIALS RESEARCH EXPRESS, vol.7, no.1, pp.1-16, 2020 (SCI-Expanded)
  22. **Na<sub>2</sub>Si<sub>3</sub>O<sub>7</sub>/BaO composites for the gamma-ray shielding in medical applications: Experimental, MCNP5, and WinXCom studies**  
Çağlar M., Kayacık H., Karabul Y., Kılıç M., Ozdemir Z., İçelli O.  
PROGRESS IN NUCLEAR ENERGY, vol.117, 2019 (SCI-Expanded)
  23. **Impact of oxygen doping on AC impedance, complex dielectric and electrical modulus spectra of a Hg-Ba-Ca-Cu-O ceramic**  
Cataltepe O. A., Ozdemir Z., Kılıç M., Onbaşlı Ü.  
MATERIALS TESTING, vol.61, pp.685-689, 2019 (SCI-Expanded)

24. **Availability of water glass/Bi<sub>2</sub>O<sub>3</sub> composites in dielectric and gamma-ray screening applications**  
Demirbay T., Çağlar M., Karabul Y., Kılıç M., İçelli O., Güven Özdemir Z.  
Radiation Effects and Defects in Solids, vol.174, pp.419-434, 2019 (SCI-Expanded)
25. **Effects of the gamma-irradiation strength and basalt additive content on the mechanical performance and dielectric response of polypropylene films**  
Kılıç M., Ozdemir Z., Alkan U., Karabul Y., İçelli O.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.136, 2019 (SCI-Expanded)
26. **Dielectric and gamma shielding properties of sodium silicate glassy structure modified with tungsten**  
Kılıç M., Çağlar M., Karabul Y., Ozdemir Z., İçelli O.  
RADIATION EFFECTS AND DEFECTS IN SOLIDS, vol.174, pp.229-247, 2019 (SCI-Expanded)
27. **Improved Dielectric and Electrical Properties of PANI Achieved by Using Low Cost Mineral Additive**  
Kılıç M., Karabul Y., Ozdemir Z., Misirlioglu B., İçelli O.  
IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION, vol.26, pp.300-307, 2019 (SCI-Expanded)
28. **The influence of the partially europium substitution on the AC electrical properties of BiSr<sub>2</sub>CaCu<sub>2</sub>O<sub>6.5</sub> ceramics**  
Özdemir Z. G., KILIÇ M., KARABUL Y., Erdönmez S., İÇELLİ O.  
Processing and Application of Ceramics, vol.13, no.4, pp.323-332, 2019 (SCI-Expanded)
29. **Structural analysis and dielectric relaxation mechanism of conducting polymer/volcanic basalt rock composites**  
Bulgurcuoğlu A. E., Karabul Y., Kılıç M., Ozdemir Z., Erdonmez S., Misirlioglu B. S., Okutan M., İçelli O.  
Materials Science- Poland, 2019 (SCI-Expanded)
30. **Polyvinyl Alcohol/EuBa<sub>2</sub>Ca<sub>2</sub>Cu<sub>3</sub>O<sub>9-x</sub> Composites: Dielectric and Mechanical Properties**  
Süngü Mısırlıoğlu B., Ozdemir Z., Aksakal B., Salt Y., Tırnakçı B., Denктаş C.  
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.28, pp.1968-1979, 2018 (SCI-Expanded)
31. **X-ray irradiated LDPE/PP blends with high mechanical and dielectric performance**  
Alkan U., Kılıç M., Karabul Y., Çağlar M., İçelli O., Ozdemir Z.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.135, 2018 (SCI-Expanded)
32. **Effect of borax additive on the dielectric response of polypyrrole**  
Kılıç M., Karabul Y., Ozdemir Z., Erdonmez S., Bulgurcuoğlu A. E., Yeşilkaya S. S., Okutan M., İçelli O.  
Bulletin of Materials Science, vol.41, no.2, 2018 (SCI-Expanded)
33. **Polythiophene Based Composite with Enhanced Dielectric Performance with Basalt**  
Karabul Y., Kılıç M., Ozdemir Z., Erdönmez S., İçelli O.  
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.28, pp.325-333, 2018 (SCI-Expanded)
34. **Synthesis of chalcone-containing methacrylate-based hydrogen bonded side chain liquid crystalline polymer and its dielectric properties**  
Korkmaz B., Gursel Y. H., Canlı N., Ozdemir Z., Okutan M., Şenkal B. F.  
Polymers for Advanced Technologies, vol.28, no.11, pp.1351-1356, 2017 (SCI-Expanded)
35. **Sodium Meta Silicate Doped PPy and PT Composites with Giant Dielectric Constant**  
Erdönmez S., Karabul Y., Bulgurcuoğlu A. E., Kılıç M., Ozdemir Z., İçelli O.  
IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION, vol.24, pp.3031-3037, 2017 (SCI-Expanded)
36. **Polypropylene/basalt thick film composites: structural, mechanical and dielectric properties**  
Alkan U., Karabul Y., Bulgurcuoğlu A. E., Kılıç M., Ozdemir Z., İçelli O.  
E-POLYMERS, vol.17, pp.417-425, 2017 (SCI-Expanded)
37. **Synthesis and characterization of EuBa<sub>2</sub>Ca<sub>2</sub>Cu<sub>3</sub>O<sub>9-x</sub>: The influence of temperature on dielectric properties and charge transport mechanism**  
Ozdemir Z., Kılıç M., Karabul Y., Misirlioglu B., Cataltepe O. A., İçelli O.  
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.63, pp.196-202, 2017 (SCI-Expanded)
38. **Structural and dielectric properties of Europium based copper oxide layered perovskite material**

- Ozdemir Z., KILIÇ M., KARABUL Y., Cataltepe O. A., İÇELLİ O., Onbasli U.  
FERROELECTRICS, vol.510, no.1, pp.121-131, 2017 (SCI-Expanded)
39. **Molecular orientation of nickel phthalocyanine doped nematic liquid crystal composite under magnetic field**  
Ozdemir Z., Canli N. Y., Kılıç M., Koysal O., Yılmaz O., Okutan M.  
Molecular Crystals and Liquid Crystals, vol.634, no.1, pp.1-11, 2016 (SCI-Expanded)
40. **Synthesis and electrical properties of hydrogen bonded liquid crystal polymer**  
Korkmaz B., Canli N., Ozdemir Z., Okutan M., Gursel Y. H., Saraç A., Şenkal B. F.  
JOURNAL OF MOLECULAR LIQUIDS, vol.219, pp.1030-1035, 2016 (SCI-Expanded)
41. **Electrical and impedance properties of composites: Volcanic basalt rocks**  
Yeşilkaya S. S., Ozdemir Z., Canli N., Yıldız A., İçelli O., Okutan M.  
COMPOSITES PART B-ENGINEERING, vol.95, pp.488-492, 2016 (SCI-Expanded)
42. **The role of temperature on dielectric relaxation and conductivity mechanism of dark conglomerate liquid crystal phase**  
Yıldız A., Canli N., Ozdemir Z., Ocak H., Eran B. B., Okutan M.  
Physica B: Condensed Matter, vol.485, pp.21-28, 2016 (SCI-Expanded)
43. **The impact of NiPc additive and laser light dielectric properties of E63 nematic liquid crystal**  
Kılıç M., Ozdemir Z., Canli N. Y., Bulgurcuoğlu A. E., Koysal O., Yılmaz O., Okutan M.  
FERROELECTRICS, vol.505, pp.102-113, 2016 (SCI-Expanded)
44. **Chiral Liquid Crystal-Based Sensor for the Detection of Low Humidity**  
Canli N., Ozdemir Z.  
MOLECULAR CRYSTALS AND LIQUID CRYSTALS, vol.623, no.1, pp.64-73, 2015 (SCI-Expanded)
45. **Dielectric Properties of 4-Cyano-4'-pentylbiphenyl (5CB): 4-[4-(S)-2-Methylbutoxybenzoyloxy]benzoic Acid (BAC) Composite**  
Canli N., Ozdemir Z., Okutan M., Guzeller D., Ocak H., Eran B.  
MOLECULAR CRYSTALS AND LIQUID CRYSTALS, vol.623, no.1, pp.17-30, 2015 (SCI-Expanded)
46. **The electrical properties of nickel (II) phthalocyanine and phenyl-C-61-butyric-acid-methyl ester doped nematic liquid crystals under laser light**  
Ozdemir Z., Canli N., Yılmaz O., Kirsoy A., Okutan M., Koysal O.  
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.26, pp.1587-1592, 2015 (SCI-Expanded)
47. **Impedance and dielectric properties of mercury cuprate at nonsuperconducting state**  
Ozdemir Z., Cataltepe O. A., Onbasli U. ..  
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.29, no.29, 2015 (SCI-Expanded)
48. **Super-capacitive behavior of carbon nano tube doped 11-(4-cyanobiphenyl-4-oxo) undecan-1-ol**  
Ozdemir Z., Canli N., Şenkal B. F., Gürsel Y., Okutan M.  
JOURNAL OF MOLECULAR LIQUIDS, vol.211, pp.442-447, 2015 (SCI-Expanded)
49. **Dielectric Anisotropy Properties of BAC-Doped 5CB Liquid Crystal**  
Ozdemir Z., Canli N., Okutan M., Eran B. B.  
Molecular Crystals and Liquid Crystals, vol.616, no.1, pp.102-111, 2015 (SCI-Expanded)
50. **Addition of single-wall carbon nanotubes to a liquid crystal material: Impact on dielectric properties**  
Gürsel Y., Şenkal B. F., Canli N., Ozdemir Z., Ahlatcioglu E., Yılmaz O., Okutan M.  
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.34, pp.182-188, 2015 (SCI-Expanded)
51. **The Effect of Different Liquid Crystal Compounds on Conduction Mechanism of 4-Cyano-4(')-n-heptybiphenyl (7CB) by Using I-V Characteristics**  
Canli N., Ozdemir Z., Eran B. B.  
MOLECULAR CRYSTALS AND LIQUID CRYSTALS, vol.608, no.1, pp.47-54, 2015 (SCI-Expanded)
52. **Alternative Current Conductivity Mechanism of BAC Doped Nematic Liquid Crystals**  
Canli N., Ozdemir Z., Okutan M., Eran B. B.  
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.10, pp.61-64, 2015 (SCI-Expanded)
53. **Determination of Chaotic Behavior in Liquid Crystal**  
Ozdemir Z., Canli N., OCAK H., Eran B. B.

- MOLECULAR CRYSTALS AND LIQUID CRYSTALS, vol.607, no.1, pp.87-93, 2015 (SCI-Expanded)
54. **Role of oxygen content on micro-whiskers in mercury based superconductors**  
Cataltepe O. A., Ozdemir Z., Onbasli U.  
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.373, pp.23-26, 2015 (SCI-Expanded)
55. **An investigation of the effect of grain size on some properties of intrinsic Josephson junction**  
Cataltepe O. A., Ozdemir Z., Onbasli U.  
PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS, vol.491, pp.59-62, 2013 (SCI-Expanded)
56. **The correlation between double helix quantum wave in d-wave superconductors and human DNA**  
GÜVEN ÖZDEMİR Z., Aslan Çataltepe Ö., Onbaşlı Ü.  
ACTA PHYSICA POLONICA A, vol.121, pp.13-15, 2012 (SCI-Expanded)
57. **Schwarzian derivative as a proof of the chaotic behaviour**  
Ozdemir Z.  
PRAMANA-JOURNAL OF PHYSICS, vol.77, no.6, pp.1159-1169, 2011 (SCI-Expanded)
58. **Symmetry breakings and topological solitons in mercury based d-wave superconductors**  
Onbasli U., Ozdemir Z., Aslan O.  
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2. **Polypropylene-based Composites: A Better Alternative to Conventional Radiation Shielding Materials**  
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3. **Some Recent and Remarkable Applications of Carbon Nanotube and Graphene Based Materials**  
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1. **Tungsten Trioxide Reinforced Epoxy Composites with Increased Dielectric Permittivity and Conductivity**  
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4. **Comparison of The Structural and AC Impedance Properties of PIn/Na<sub>2</sub>SiO<sub>3</sub> and PIn/Na<sub>2</sub>B<sub>4</sub>O<sub>7</sub> Composites**  
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11. **Complex Impedance and Ac Conductivity Analyze of Ceramic Doped Poly(Vinil Alcohol) Composites**  
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15. **Complex Electrical Modulus Spectra Analysis of Multi Walled Carbon Nanotube Doped Ardel Composites**  
Kavak P., Süngü Mısırlıoğlu B., Güven Özdemir Z., Şakar Daşdan D., Pionteck J., Pötschke P., Voit B.  
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Katma C., Karabul Y., Kılıç M., Güven Özdemir Z., İçelli O.  
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- Kara H., Karabul Y., Kılıç M., Güven Özdemir Z., İçelli O.  
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23. **X-Ray Shielding Performance of Sodium Silicate/Barium Oxide Glassy Composites**  
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24. **Investigation of gamma-ray shielding parameters of  $\text{Na}_2\text{Si}_3\text{O}_7/\text{Bi}_2\text{O}_3$  glassy composites**  
Demirbay T., Karabul Y., Kılıç M., Güven Özdemir Z., İçelli O.  
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26.  **$\text{EuBa}_2\text{Ca}_2\text{Cu}_3\text{O}_{9-x}$  Ceramic Additive on Micro-Structural and Mechanical Properties of Polyvinil Alcohol (PVA)**  
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27. **Dielectric Spectra of Copper Ferrite/Copper Oxide Nano Composites**  
Güven Özdemir Z., Kılıç M., Süngü Mısırlıoğlu B., Çakır Ö., Kahya N. D.  
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28. **LDPE/ PP Composites: Dielectric and Mechanical Properties Under Low Level Radiation**  
Kılıç M., Alkan Ü., Güven Özdemir Z., Karabul Y., Çağlar M., İçelli O.  
2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), Nevşehir, Turkey, 11 - 13 October 2017, pp.321
29. **Mechanical and Dielectric Characterization of Polypropylene/Basalt Films Under Gamma-Ray Irradiation**  
Karabul Y., Alkan Ü., Kılıç M., Güven Özdemir Z., İçelli O.  
2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), Nevşehir, Turkey, 11 - 13 October 2017, pp.322
30. **Enhance of The Radiation Shielding Performance of Concrete with Kufeki Stone Additive**  
Bulgurcuoğlu A. E., Çağlar M., Karabul Y., Kılıç M., Güven Özdemir Z., İçelli O.  
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31. **Sodium Silicate/Wolfram Glassy Composites: Investigation of Shielding and Dielectric Parameters**  
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2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), Nevşehir, Turkey, 11 - 13 October 2017, pp.169
32. **Temperature Dependent Dielectric Properties of  $\text{Eu}_x\text{Bi}_{1-x}\text{Sr}_2\text{CaCu}_2\text{O}_{6.5}$  ( $x=0, 0.3, 0.5$ ) Ceramic**

## Composites

Kılıç M., Güven Özdemir Z., Karabul Y., İçelli O.

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33. **Investigation of Shielding Properties: Sodium Silicate/Kufeki Glassy Structure**  
Bulgurcuoğlu A. E., Karabul Y., Kılıç M., Çağlar M., Güven Özdemir Z., İçelli O.  
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34. **Polythiophene/Basalt Composites: Synthesis, Structural Analysis and Dielectric Properties**  
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36. **Structural And Dielectric Properties Of Polypropylene Volcanic Basalt Rock Thick Film Composites**  
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Kılıç M., Karabul Y., Bulgurcuoğlu A. E., Güven Özdemir Z., Alkan Ü., İçelli O.  
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38. **Temperature Dependence of Dielectric Properties and Electrical Conductivity of EuBa<sub>2</sub>Ca<sub>2</sub>Cu<sub>3</sub>O<sub>9-x</sub>**  
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39. **Eu-Ba-Ca-Cu-O Perovskite Material as a Negative Temperature Coefficient Thermistor**  
Güven Özdemir Z., Kılıç M., Karabul Y., Süngü Mısırlıoğlu B., Aslan Çataltepe Ö., İçelli O.  
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40. **Europium Based Composite Material As a Negative Dielectric Constant Medium**  
Güven Özdemir Z., Aslan Çataltepe Ö., Yılmaz Canlı N., Kılıç M., Karabul Y., Okutan M., Onbaşı Ü.  
2nd International Conference on Organic Electronic Material Technologies (OEMT-2016), Çanakkale, Turkey, 17 - 19 May 2016, pp.82
41. **The Influence of Poly(3,4-ethylenedioxythiophene)-poly(styrenesulfonate) doping on the Impedance Spectra of NiPc Thin Films**  
Süngü Mısırlıoğlu B., Güven Özdemir Z., Altındal A.  
2nd International Conference on Organic Electronic Material Technologies OEMT 2016, Çanakkale, Turkey, 17 - 19 May 2016, pp.83
42. **A Comprehensive Study on Dielectric Mechanism of Conducting Polymers Sodium Silicate Composites**  
Erdönmez S., Bulgurcuoğlu A. E., Karabul Y., Kılıç M., Güven Özdemir Z., Okutan M., Altındal A.  
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44. **Electronic Properties of Mercury Cuprates at Non Superconducting State**  
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Güven Özdemir Z., Yılmaz Canlı N., Yılmaz Ö., Kırsoy A., Okutan M., Köysal O.  
1st International Conference on Organic Electronic Material Technologies OEMT 2015, Elazığ, Turkey, 25 - 28 March 2015, pp.124
46. **Olasılık Yoğunluk Kavramındaki Süper Mantık**  
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47. **The Relation Between the Highest Meissner Transition Temperature in Oxide Superconductors and Bose-Einstein Condensation**  
GÜVEN ÖZDEMİR Z., Onbaşı Ü.  
9. İTÜ Uluslararası İstatistik Fizik Günleri, İTÜ, 01 July 2002
48. **Vortex Matter in Superfluids, Superconductors and Neutron Stars**  
GÜVEN ÖZDEMİR Z., Özüğür B., Onbaşı Ü.  
Ulusal Sıvıhal Fiziği Sempozyumu, İstanbul Üniversitesi Baltalimanı Sosyal Tesisleri, 01 June 2002
49. **Relativistic quantum mechanics and noncommutative geometry**  
Güven Z., Mir Kassimov R.  
3rd Conference on Nuclear and Particle Physics, Cairo, Egypt, 20 - 24 October 2001, pp.1
50. **Relativistic Quantum Mechanics and Non-Commutative Differential Calculus**  
Güven Z., Can Z., Mir-Kassimov R., Oğuz O.  
15th International Seminar on High Energy Physics Problems, Dudinka, Russia, 25 - 29 September 2000, pp.56-61

## Academic and Administrative Experience

2024 - Continues	<b>Head of Department</b>	Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics
2023 - Continues	<b>Fakülte Yönetim Kurulu Üyesi</b>	Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics
2022 - 2022	<b>Deputy Head of Department</b>	Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics
2017 - 2021	<b>Fakülte Kurulu Üyesi</b>	Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics

## Courses

Teorik Klasik Mekanik , Postgraduate, 2022 - 2023  
Classical Mechanics, Undergraduate, 2019 - 2020  
Physics 2, Undergraduate, 2019 - 2020, 2018 - 2019  
Bitirme Çalışması, Undergraduate, 2019 - 2020, 2017 - 2018, 2015 - 2016  
Physics 1, Undergraduate, 2018 - 2019, 2017 - 2018  
Introduction to Superconductivity, Undergraduate, 2017 - 2018  
Introduction To Material's Structure, Undergraduate, 2017 - 2018, 2016 - 2017  
Physics 2, Undergraduate, 2016 - 2017, 2015 - 2016  
Physics 1, Undergraduate, 2016 - 2017

## Advising Theses

- Güven Özdemir Z., Synergetic Effect of Micro and Nanoparticle Mixture Addition on Mechanical and Electrical Properties of Polyvinylidene Fluoride, Postgraduate, A.Şensu(Student), Continues
- Altındal A., Güven Özdemir Z., Bazı Nanoyapıların Gaz Algılama Özellikleri ile Optik Özelliklerinin Arasındaki İlişkinin İncelenmesi, Doctorate, A.Nur(Student), Continues
- Güven Özdemir Z., Esmer K., ÇEVRESEL KOŞULLARA DAYANIKLI POLİETİLEN BAZLI Bi2O3 İLE GÜÇLENDİRİLMİŞ NANO KOMPOZİT ŞERİTLERİN DİELEKTRİK, MEKANİK ÖZELLİKLERİNİN İNCELENMESİ ve YAPAY ZEKÂ İLE OPTİMİZASYONU , Postgraduate, N.ŞAHİN(Student), Continues
- Güven Özdemir Z., X Işını ve Düşük Enerjili Gama Işımlarını Zırhlama Özelliğine Sahip Polimer Temelli Nano Kompozitlerin Üretimi, Postgraduate, E.BEYAZAY(Student), 2022
- Güven Özdemir Z., SYNTHESIS OF POLYTHIOPHENE, POLYPYRROLE AND POLYINDOLE BASED COMPOSITES, DETERMINATION OF THEIR STRUCTURAL and ELECTRICAL PROPERTIES, Doctorate, S.ERDÖNMEZ(Student), 2019
- GÜVEN ÖZDEMİR Z., E63 KODLU NiPc+C61 KATKILI NEMATİK SIVI KRİSTALLERDE ELEKTRİKSEL VE MANYETİK ÖZELLİKLERİN İNCELENMESİ, Doctorate, Ö.Yılmaz(Student), 2016

## Activities in Scientific Journals

INTERNATIONAL JOURNAL of ENGINEERING and NATURAL SCIENCES, Advisory Committee Member, 2018 - Continues

## Scientific Refereeing

- IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION, SCI Journal, May 2019
- JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, SCI Journal, July 2018
- JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, March 2018
- Polymer Testing, SCI Journal, January 2018
- Journal Of Molecular Structure-Theochem, SCI Journal, August 2017
- TUBITAK Project, 1002 - Quick Support Program, Yıldız Technical University, Turkey, June 2017
- Türk Kimya Dergisi, Other Journals, August 2016
- PHYSICA B-CONDENSED MATTER, SCI Journal, December 2009
- Symmetry, Other Indexed Journal, November 2009

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- Publication: 125
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- H-Index (WoS): 8
- H-Index (Scopus): 9

## Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Materials Science, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Superconductivity, Natural Sciences