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International Researcher IDs

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Learning Knowledge

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

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. 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
2. Beyazay E., Güven Özdemir Z., Project Supported by Higher Education Institutions, X-Işını ve Düşük Enerjili Gama Işımları Zırhlama Özelliğine Sahip Polimer Temelli Nano Kompozitlerin Üretimi, 2019 - 2021
3. 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
4. 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
5. Onbaşlı 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., Bilimsel Yayınları Teşvik Ödülü, Tübitak, May 2017
2. 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
3. Güven Özdemir Z., Bilimsel 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 Ödülü, 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. **The addition of Bi₂WO₆ nanoparticles to polyvinyl alcohol film: Improvements in optical, mechanical, and electrical properties**
BEYAZAY E., ŞAHİN N., KARABUL Y., KILIÇ M., GÜVEN ÖZDEMİR Z.
Physica B: Condensed Matter, vol.696, 2025 (SCI-Expanded)
2. **LDPE/Bi₂O₃ nanocomposites: Enhanced mechanical, dielectric, and optical properties**
ŞAHİN N., BEYAZAY E., KARABUL Y., KILIÇ M., ESMER K., GÜVEN ÖZDEMİR Z.

Journal of Applied Polymer Science, vol.141, no.12, 2024 (SCI-Expanded)

3. **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., ESMEER K.
Polymer International, vol.73, no.1, pp.9-20, 2024 (SCI-Expanded)
4. **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)
5. **Analyses of negative real permittivity behavior, AC conductivity and impedance properties of (YxEu1-x)Ba2Cu3O6.5 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)
6. **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)
7. **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)
8. **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)
9. **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)
10. **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)
11. **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)
12. **Radiation shielding performances of Na2SiO3 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)
13. **Na2Si3O7/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)
14. **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)
15. **Structural characterization and dielectric parameters of polyindole/WO3 nanocomposites**
Erdonmez S., Karabul Y., Kılıç M., Ozdemir Z. G., Esmer K.
POLYMER COMPOSITES, vol.42, no.3, pp.1347-1355, 2021 (SCI-Expanded)
16. **Dielectric and magnetic properties of CuFe2O4/ 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)
17. **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)
 18. **Negative real permittivity in (Bi_{0.3}Eu_{0.7})Sr₂CaCu₂O_{6.5} ceramic**
Kılıç M., Özdemir Z., Karabul Y., Karataş Ö., Çataltepe Ö. A.
Physica B: Condensed Matter, vol.584, 2020 (SCI-Expanded)
 19. **The mechanical and dielectric properties of polypropylene reinforced with BiSr₂CaCu₂O_{6.5} ceramic**
Erdönmez S., Güven Özdemir Z.
POLYMER BULLETIN, vol.77, no.4, pp.1793-1812, 2020 (SCI-Expanded)
 20. **A transition in the electrical conduction mechanism of CuO/CuFe₂O₄ 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)
 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. **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)
 23. **Na₂Si₃O₇/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)
 24. **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)
 25. **Availability of water glass/Bi₂O₃ 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)
 26. **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)
 27. **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)
 28. **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)
 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. **The influence of the partially europium substitution on the AC electrical properties of BiSr₂CaCu₂O_{6.5} 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)

31. **Polyvinyl Alcohol/EuBa₂Ca₂Cu₃O_{9-x} Composites: Dielectric and Mechanical Properties**
Süngü Mısırlıoğlu B., Ozdemir Z., Aksakal B., Salt Y., Tirnakçı B., Denктаş C.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.28, pp.1968-1979, 2018 (SCI-Expanded)
32. **X-ray irradiated LDPE/PP blends with high mechanical and dielectric performance**
Alkan U., Kılıç M., Karabul Y., Caglar M., İçelli O., Ozdemir Z.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.135, 2018 (SCI-Expanded)
33. **Effect of borax additive on the dielectric response of polypyrrole**
Kılıç M., Karabul Y., Ozdemir Z., Erdönmez S., Bulgurcuoğlu A. E., Yeşilkaya S. S., Okutan M., İçelli O.
Bulletin of Materials Science, vol.41, no.2, 2018 (SCI-Expanded)
34. **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)
35. **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)
36. **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)
37. **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)
38. **Synthesis and characterization of EuBa₂Ca₂Cu₃O_{9-x}: 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)
39. **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)
40. **Molecular orientation of nickel phthalocyanine doped nematic liquid crystal composite under magnetic field**
Ozdemir Z., Canlı 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)
41. **Synthesis and electrical properties of hydrogen bonded liquid crystal polymer**
Korkmaz B., Canlı 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)
42. **Electrical and impedance properties of composites: Volcanic basalt rocks**
Yeşilkaya S. S., Ozdemir Z., Canlı N., Yıldız A., İçelli O., Okutan M.
COMPOSITES PART B-ENGINEERING, vol.95, pp.488-492, 2016 (SCI-Expanded)
43. **The role of temperature on dielectric relaxation and conductivity mechanism of dark conglomerate liquid crystal phase**
Yıldız A., Canlı N., Ozdemir Z., Ocak H., Eran B. B., Okutan M.
Physica B: Condensed Matter, vol.485, pp.21-28, 2016 (SCI-Expanded)
44. **The impact of NiPc additive and laser light dielectric properties of E63 nematic liquid crystal**
Kılıç M., Ozdemir Z., Canlı N. Y., Bulgurcuoğlu A. E., Koysal O., Yılmaz O., Okutan M.
FERROELECTRICS, vol.505, pp.102-113, 2016 (SCI-Expanded)
45. **Chiral Liquid Crystal-Based Sensor for the Detection of Low Humidity**
Canlı N., Ozdemir Z.

- MOLECULAR CRYSTALS AND LIQUID CRYSTALS, vol.623, no.1, pp.64-73, 2015 (SCI-Expanded)
46. **Dielectric Properties of 4-Cyano-4'-pentylbiphenyl (5CB): 4-[4-(S)-2-Methylbutoxybenzoyloxy]benzoic Acid (BAC) Composite**
Canlı N., Ozdemir Z., Okutan M., Guzeller D., Ocağ H., Eran B.
MOLECULAR CRYSTALS AND LIQUID CRYSTALS, vol.623, no.1, pp.17-30, 2015 (SCI-Expanded)
47. **The electrical properties of nickel (II) phthalocyanine and phenyl-C-61-butyric-acid-methyl ester doped nematic liquid crystals under laser light**
Ozdemir Z., Canlı N., Yılmaz O., Kirsoy A., Okutan M., Koysal O.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.26, pp.1587-1592, 2015 (SCI-Expanded)
48. **Impedance and dielectric properties of mercury cuprate at nonsuperconducting state**
Ozdemir Z., Cataltepe O. A., Onbaşlı U. ..
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.29, no.29, 2015 (SCI-Expanded)
49. **Super-capacitive behavior of carbon nano tube doped 11-(4-cyanobiphenyl-4-oxy) undecan-1-ol**
Ozdemir Z., Canlı N., Şenkal B. F., Gürsel Y., Okutan M.
JOURNAL OF MOLECULAR LIQUIDS, vol.211, pp.442-447, 2015 (SCI-Expanded)
50. **Dielectric Anisotropy Properties of BAC-Doped 5CB Liquid Crystal**
Ozdemir Z., Canlı N., Okutan M., Eran B. B.
Molecular Crystals and Liquid Crystals, vol.616, no.1, pp.102-111, 2015 (SCI-Expanded)
51. **Addition of single-wall carbon nanotubes to a liquid crystal material: Impact on dielectric properties**
Gürsel Y., Şenkal B. F., Canlı N., Ozdemir Z., Ahlatcioglu E., Yılmaz O., Okutan M.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.34, pp.182-188, 2015 (SCI-Expanded)
52. **The Effect of Different Liquid Crystal Compounds on Conduction Mechanism of 4-Cyano-4(')-n-heptylbiphenyl (7CB) by Using I-V Characteristics**
Canlı N., Ozdemir Z., Eran B. B.
MOLECULAR CRYSTALS AND LIQUID CRYSTALS, vol.608, no.1, pp.47-54, 2015 (SCI-Expanded)
53. **Alternative Current Conductivity Mechanism of BAC Doped Nematic Liquid Crystals**
Canlı N., Ozdemir Z., Okutan M., Eran B. B.
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.10, pp.61-64, 2015 (SCI-Expanded)
54. **Determination of Chaotic Behavior in Liquid Crystal**
Ozdemir Z., Canlı N., OCAK H., Eran B. B.
MOLECULAR CRYSTALS AND LIQUID CRYSTALS, vol.607, no.1, pp.87-93, 2015 (SCI-Expanded)
55. **Role of oxygen content on micro-whiskers in mercury based superconductors**
Cataltepe O. A., Ozdemir Z., Onbaşlı U.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.373, pp.23-26, 2015 (SCI-Expanded)
56. **An investigation of the effect of grain size on some properties of intrinsic Josephson junction**
Cataltepe O. A., Ozdemir Z., Onbaşlı U.
PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS, vol.491, pp.59-62, 2013 (SCI-Expanded)
57. **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)
58. **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)
59. **Symmetry breakings and topological solitons in mercury based d-wave superconductors**
Onbaşlı U., Ozdemir Z., Aslan O.
CHAOS SOLITONS & FRACTALS, vol.42, no.4, pp.1980-1989, 2009 (SCI-Expanded)
60. **Terahertz Oscillations in Mercury Cuprate Superconductors**
GÜVEN ÖZDEMİR Z., Aslan Ö., Onbaşlı Ü.
PRAMANA-JOURNAL OF PHYSICS, pp.755-763, 2009 (SCI-Expanded)
61. **Determination of c-axis Electrodynamics Parameters of Mercury Cuprates**
GÜVEN ÖZDEMİR Z., Aslan Ö., Onbaşlı Ü.

JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.67, no.1, pp.453-456, 2006 (SCI-Expanded)

62. **Poincare-Lie algebra and noncommutative differential calculus**

Guven Z., Can Z., Mir-Kasimov R., Oguz O.

PHYSICS OF ATOMIC NUCLEI, vol.64, no.12, pp.2143-2145, 2001 (SCI-Expanded)

Articles Published in Other Journals

1. **Application of Supervised Machine Learning Regression Algorithms to Prediction of Dielectric Properties of PPy/Kufeki Stone Composites for Energy Implementations**

Eyecioglu O., KARABUL Y., KILIÇ M., GÜVEN ÖZDEMİR Z.

Gazi University Journal of Science, vol.35, no.1, pp.235-254, 2022 (Scopus)

2. **Experimental Comparison of PbO and BaO Addition Effect on Gamma Ray Shielding Performance of Epoxy Polymer**

Ergin Y., Karabul Y., Güven Özdemir Z., Kılıç M.

Avrupa Bilim ve Teknoloji Dergisi, vol.16, pp.256-266, 2019 (Peer-Reviewed Journal)

3. **Volcanic Rock Reinforced Epoxy Composites for Gamma Ray Shielding**

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

Avrupa Bilim ve Teknoloji Dergisi, vol.15, pp.552-560, 2019 (Peer-Reviewed Journal)

4. **Invariant Magnetic Vector Potential in the Mercury Based HighTemperature Superconductor and Its Prospective Technological Application**

GÜVEN ÖZDEMİR Z.

International Journal of Engineering and Natural Sciences (IJENS's), vol.1, pp.1-5, 2018 (Peer-Reviewed Journal)

5. **Prediction of Dielectric Properties of Polypropylene/Polyaniline Composite Films By Artificial Neural Networks Model**

Eyecioglu Ö., Kılıç M., Güven Özdemir Z.

Gazi Üniversitesi Fen Bilimleri Dergisi Part: C Tasarım ve Teknoloji, vol.6, pp.787-802, 2018 (Peer-Reviewed Journal)

6. **Golden Ratio Discovered in Nonlinear Superconductor**

ASLAN ÇATALTEPE Ö., GÜVEN ÖZDEMİR Z., ONBASLI Ü.

International Journal of Engineering and Natural Sciences (IJENS's), vol.1, pp.7-12, 2018 (Peer-Reviewed Journal)

7. **PT/BORAX COMPOSITE AS A HIGH DIELECTRIC CONSTANT MATERIAL WITH LOWER DIELECTRIC LOSS**

KILIÇ M., KARABUL Y., GÜVEN ÖZDEMİR Z., İÇELLİ O.

ANADOLU UNIVERSITY JOURNAL OF SCIENCE AND TECHNOLOGY - A APPLIED SCIENCES AND ENGINEERING, vol.18, no.5, pp.1089-1097, 2017 (Peer-Reviewed Journal)

8. **Chaotic Point Works As Qubit in High Temperature Superconductors**

GÜVEN ÖZDEMİR Z.

JOURNAL OF APPLIED FUNCTIONAL ANALYSIS, vol.6, no.2, pp.165-172, 2011 (Peer-Reviewed Journal)

Books & Book Chapters

1. **Liquid Crystal Polymer Nanocomposites**

Visakh P. (Editor), Semkın A. (Editor), Güven Özdemir Z. (Editor)

Woodhead Publishing Limited , Oxford, 2022

2. **Polypropylene-based Composites: A Better Alternative to Conventional Radiation Shielding Materials**

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

in: Polypropylene Advances in Research and Applications , Théodore Marleau, Editor, NOVA Science Publishers Inc. , New York, pp.109-154, 2022

3. **Some Recent and Remarkable Applications of Carbon Nanotube and Graphene Based Materials**

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9. İTÜ Uluslararası İstatistik Fizik Günleri, İTÜ, 01 July 2002

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56. **Relativistic Quantum Mechanics and Non-Commutative Differential Calculus**

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15th International Seminar on High Energy Physics Problems, Dudinka, Russia, 25 - 29 September 2000, pp.56-61

Academic and Administrative Experience

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

- Publication: 132
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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