

## Dr. Öğr. Üyesi Yaşar KARABUL

### Kişisel Bilgiler

E-posta: karabul@yildiz.edu.tr

Web: <https://avesis.yildiz.edu.tr/karabul>

### Eğitim Bilgileri

Doktora, Yıldız Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, Türkiye 2015 - 2021

Yüksek Lisans, İstanbul Üniversitesi, Fen Fakültesi, Fizik, Türkiye 2012 - 2014

Lisans, Abant İzzet Baysal Üniversitesi, Fen-Edebiyat Fakültesi, Fizik (İngilizce), Türkiye 2007 - 2012

### Yaptığı Tezler

Doktora, Yeni nesil radyasyon zırhlayıcılar: epoksi temelli metal oksit mikro ve nano yapıli kompozitler, Yıldız Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2021

Yüksek Lisans, Bazalt numunelerde EABF ve EBF parametrelerinin yeni bir metot ile tayini, İstanbul Üniversitesi, Fen Fakültesi, Fizik, 2014

### Araştırma Alanları

Fizik, Atom ve Molekül Fiziği, Nükleer Fizik

### Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Yıldız Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2022 - Devam Ediyor

Araştırma Görevlisi, Yıldız Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2014 - 2021

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- 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, cilt.141, sa.12, 2024 (SCI-Expanded)
- 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, cilt.73, sa.1, ss.9-20, 2024 (SCI-Expanded)
- 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, cilt.140, ss.1-12, 2023 (SCI-Expanded)
- 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, cilt.49, sa.14, ss.23546-23557, 2023 (SCI-Expanded)

- V. **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, cilt.138, sa.7, 2023 (SCI-Expanded)
- VI. **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, cilt.155, 2023 (SCI-Expanded)
- VII. **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, cilt.128, 2022 (SCI-Expanded)
- VIII. **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, cilt.139, sa.39, 2022 (SCI-Expanded)
- IX. **PCz/BaO nanocomposites: Synthesis, characterization, and energy storage properties**  
BEYAZAY E., KARABUL Y., KILIÇ M., EKEN KORKUT S., Ozdemir Z.  
PHYSICA B-CONDENSED MATTER, cilt.634, 2022 (SCI-Expanded)
- X. **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, cilt.626, 2022 (SCI-Expanded)
- XI. **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, cilt.143, 2022 (SCI-Expanded)
- XII. **Na<sub>2</sub>SiO<sub>3</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, cilt.139, ss.1-13, 2021 (SCI-Expanded)
- XIII. **The assessment of usage of epoxy based micro and nano-structured composites enriched with Bi<sub>2</sub>O<sub>3</sub> and WO<sub>3</sub> particles for radiation shielding**  
Karabul Y., İçelli O.  
Results in Physics, cilt.26, 2021 (SCI-Expanded)
- XIV. **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, cilt.135, 2021 (SCI-Expanded)
- XV. **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, cilt.42, sa.3, ss.1347-1355, 2021 (SCI-Expanded)
- XVI. **Mechanical and dielectric behavior of LDPE/Bi-1212 films**  
Alkan U., Kilic M., Karabul Y., Ozdemir Z.  
MATERIALS TESTING, cilt.62, sa.9, ss.913-920, 2020 (SCI-Expanded)
- XVII. **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, cilt.584, 2020 (SCI-Expanded)
- XVIII. **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, cilt.44, ss.1-15, 2020 (SCI-Expanded)

- XIX. **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, cilt.117, 2019 (SCI-Expanded)
- XX. **BXCOM: a software for computation of radiation sensing**  
Eyecioglu O., El-Khayatt A. M., KARABUL Y., Caglar M., TOKER O., İÇELLİ O.  
RADIATION EFFECTS AND DEFECTS IN SOLIDS, cilt.174, ss.506-518, 2019 (SCI-Expanded)
- XXI. **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, cilt.174, ss.419-434, 2019 (SCI-Expanded)
- XXII. **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, cilt.136, 2019 (SCI-Expanded)
- XXIII. **Dielectric and gamma shielding properties of sodium silicate glassy structure modified with tungsten**  
Kılıç M., Caglar M., Karabul Y., Ozdemir Z., İçelli O.  
RADIATION EFFECTS AND DEFECTS IN SOLIDS, cilt.174, ss.229-247, 2019 (SCI-Expanded)
- XXIV. **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, cilt.26, ss.300-307, 2019 (SCI-Expanded)
- XXV. **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, cilt.13, sa.4, ss.323-332, 2019 (SCI-Expanded)
- XXVI. **Determination of Se, Cr, Mn, Zn, Co, Na, and K in Blood Samples of Breast Cancer Patients to Investigate Their Variation Using ICP-MS and ICP-OES**  
Toker O., Topdağı Ö., Bakırdere S., Bursalıoğlu E. O., Öz E., Eyecioglu O., Karabul Y., Çağlar M., İçelli O.  
ATOMIC SPECTROSCOPY, cilt.40, ss.11-16, 2019 (SCI-Expanded)
- XXVII. **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)
- XXVIII. **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, cilt.135, 2018 (SCI-Expanded)
- XXIX. **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, cilt.41, sa.2, 2018 (SCI-Expanded)
- XXX. **Measurement of photon interaction parameters of high-performance polymers and their composites**  
Buyukyildiz M., Tasdelen M. A., KARABUL Y., ÇAĞLAR M., İÇELLİ O., BOYDAŞ E.  
RADIATION EFFECTS AND DEFECTS IN SOLIDS, cilt.173, ss.474-488, 2018 (SCI-Expanded)
- XXXI. **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, cilt.28, ss.325-333, 2018 (SCI-Expanded)
- XXXII. **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, cilt.24, ss.3031-3037, 2017 (SCI-Expanded)
- XXXIII. **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, cilt.17, ss.417-425, 2017 (SCI-Expanded)

- XXXIV. **Determination of radiation shielding parameters of 304L stainless steel specimens from welding area for photons of various gamma ray sources**  
Buyukyildiz M., KURUDİREK M., Ekici M., İÇELLİ O., KARABUL Y.  
PROGRESS IN NUCLEAR ENERGY, cilt.100, ss.245-254, 2017 (SCI-Expanded)
- XXXV. **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, cilt.63, ss.196-202, 2017 (SCI-Expanded)
- XXXVI. **A study on compatibility of experimental effective atomic numbers with those predicted by ZXCOM**  
Eyecioglu O., EL-KHAYATT A. M., KARABUL Y., İÇELLİ O.  
NUCLEAR SCIENCE AND TECHNIQUES, cilt.28, sa.5, 2017 (SCI-Expanded)
- XXXVII. **Prediction of electron density and trace element concentrations in human blood serum following radioiodine therapy in differentiated thyroid cancer patients**  
Bursalioglu E. O., ALKAN F. A., BARUTCU U. B., DEMİR M., KARABUL Y., BALKAN B., ÖZ E., İÇELLİ O.  
MEASUREMENT, cilt.100, ss.19-25, 2017 (SCI-Expanded)
- XXXVIII. **Gamma-ray irradiation effect on mechanical and dielectric properties of volcanic basalt mineral reinforced low density polyethylene films**  
Kılıç M., Karabul Y., Alkan U., Yağci Ö., Okutan M., Okutan M., İçelli O.  
Physicochemical Problems of Mineral Processing, cilt.53, sa.1, ss.578-590, 2017 (SCI-Expanded)
- XXXIX. **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, cilt.510, sa.1, ss.121-131, 2017 (SCI-Expanded)
- XL. **Electrical and mechanical properties of LDPE/PANI composites**  
Alkan U., Kılıç M., Karabul Y., Yamak H., Okutan M., İçelli O.  
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, cilt.11, ss.343-348, 2016 (SCI-Expanded)
- XLI. **Study of the electron densities of some food products dried using the new method**  
Nuroglu E., Bursalioglu E. O., Karabul Y., Bakırdere S., İçelli O.  
DRYING TECHNOLOGY, cilt.34, ss.1445-1454, 2016 (SCI-Expanded)
- XLII. **ZXCOM: a software for computation of radiation sensing attributes**  
Eyecioglu O., KARABUL Y., EL-KHAYATT A. M., İçelli O.  
RADIATION EFFECTS AND DEFECTS IN SOLIDS, cilt.171, ss.965-977, 2016 (SCI-Expanded)
- XLIII. **Computation of EABF and EBF for basalt rock samples**  
KARABUL Y., Susam L. A., İÇELLİ O., Eyecioglu O.  
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, cilt.797, ss.29-36, 2015 (SCI-Expanded)

## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **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, cilt.35, sa.1, ss.235-254, 2022 (Scopus)
- II. **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, cilt.16, ss.256-266, 2019 (Hakemli Dergi)
- III. **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, cilt.15, ss.552-560, 2019 (Hakemli Dergi)
- IV. **The Effects of PANI Concentration on the Mechanical Properties of PP/PANI Composites**

Kılıç M., Alkan Ü., Karabul Y., Berber Yamak H., İçelli O.

Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, cilt.18, ss.426-433, 2018 (Hakemli Dergi)

V. **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, cilt.18, sa.5, ss.1089-1097, 2017 (Hakemli Dergi)

VI. **Artificial Neural Networks Study on Prediction of Dielectric Permittivity of Basalt PANI Composites**

Eyecioğlu Ö., Karabul Y., Alkan Ü., Kılıç M., İçelli O.

International Journal of Engineering Technologies, cilt.2, sa.2, ss.42-48, 2016 (Hakemli Dergi)

## Kitap & Kitap Bölümleri

I. **GAMMA-RAY SHIELDING PARAMETERS FOR PC/BATIO3 COMPOSITES**

Erdönmez S., Çağlar M., Eşitmez D., Karabul Y.

Engineering Sciences Issues, Opportunities and Researches, Halil İbrahim Kurt,Engin Ergül, Editör, LIVRE DE LYON, Lyon, ss.133-144, 2023

II. **TERMOPLASTİK POLİÜRETAN/GADOLİNYUM OKSİT KOMPOZİTLERİNİN RADYASYON ZIRHLAMA ÖZELLİKLERİNİN İNCELENMESİ**

Karabul Y., Erdönmez S., Çağlar M.

FEN VE MÜHENDİSLİKTE ANALİZ, SENTEZ VE UYGULAMALAR, Serkan GÜLDAL, Editör, İKSAD, Ankara, ss.35-48, 2023

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

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

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

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. **Tungsten Trioxide Reinforced Epoxy Composites with Increased Dielectric Permittivity and Conductivity**

Şahin N., Karabul Y., Kılıç M., Güven Özdemir Z., Esmer K.

TURKISH PHYSICAL SOCIETY 38th INTERNATIONAL PHYSICS CONGRESS, Muğla, Türkiye, 31 Ağustos - 04 Eylül 2022, ss.304

II. **A Non-Carcinogenic Additive for Improving the Ionizing Radiation Shielding Performance of Epoxy: Silver Microparticles**

Yılmaz M., Kalkan N. E., İç S., Karabul Y., Kılıç M., Güven Özdemir Z.

TURKISH PHYSICAL SOCIETY 37TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Türkiye, 1 - 05 Eylül 2021, ss.234

III. **Yahyalı Stone Reinforced Epoxy Matrix for Gamma-Ray Screening**

Karabul Y., Bozkurt M., Şahin N., Kılıç M., Güven Özdemir Z.

ULUSLARARASI ANKARA BİLİMSEL ARAŞTIRMALAR KONGRESİ, Ankara, Türkiye, 4 - 06 Ekim 2019, ss.411-412

IV. **Enhanced Conductivity at PPy with the Addition of Tungsten Based Oxide Nanoparticles**

ERDÖNMEZ S., TOPUZ S., KARABUL Y., KILIÇ M., İÇELLİ O., GÜVEN ÖZDEMİR Z.

Balkan 1. Uluslararası Uygulamalı Bilimler Kongresi, 5 - 07 Nisan 2019

V. **Comparison of The Structural and AC Impedance Properties of PIn/Na2SiO3 and PIn/Na2B4O7 Composites**

İncedal İ., Erdönmez S., Karabul Y., Kılıç M., İçelli O., Güven Özdemir Z.

Balkan 1. Uluslararası Uygulamalı Bilimler Kongresi, Edirne, Türkiye, 5 - 07 Nisan 2019

VI. **The Complex Permittivity and AC Conductivity Analysis of PIn/Nano Structured WO3 Composites**

- ERDÖNMEZ S., ONGUN İ. E., KARABUL Y., KILIÇ M., İÇELLİ O., GÜVEN ÖZDEMİR Z.  
Balkan 1. Uluslararası Uygulamalı Bilimler Kongresi, 5 - 07 Nisan 2019
- VII. **AC Electrical Parameters of Polyindole/Volcanic Rock Composites**  
Keskin U., Erdönmez S., Karabul Y., Kılıç M., İçelli O., Güven Özdemir Z.  
Balkan 1. Uluslararası Uygulamalı Bilimler Kongresi, Edirne, Türkiye, 5 - 07 Nisan 2019, ss.4-5
- VIII. **Artificial Neural Network Study for the Estimation of the Components of Complex Permittivity of Polypyrrole/Limestone Composites**  
Arı A. M., Eyecioğlu Ö., Kılıç M., Karabul Y., Güven Özdemir Z.  
Balkan 1. Uluslararası Uygulamalı Bilimler Kongresi, Edirne, Türkiye, 5 - 07 Nisan 2019, ss.15-16
- IX. **Application of Artificial Neural Network Method for the Prediction of Frequency and Temperature Dependent Electrical Parameters of A Bi-Based Ceramic Material**  
ARI A. M., KARABUL Y., KILIÇ M., EYECİOĞLU Ö., GÜVEN ÖZDEMİR Z.  
IV. Uluslararası Mesleki Ve Teknik Bilimler Kongresi, 7 - 09 Aralık 2018
- X. **Epoxy/Kayseri Limestone Composites with Gamma Ray Shielding Function**  
Karabul Y., Şahin N., Bozkurt M., Kılıç M., Güven Özdemir Z.  
ULUSLARARASI ANKARA BİLİMSEL ARAŞTIRMALAR KONGRESİ, Ankara, Türkiye, 4 - 06 Ekim 2019, ss.509-510
- XI. **The Influence of Nano Structured Tungsten Oxide Additive On The Impedance Spectrum of Polythiophene**  
ERDÖNMEZ S., KARABUL Y., KILIÇ M., İÇELLİ O., GÜVEN ÖZDEMİR Z.  
3rd International Conference on Organic Electronic Material Technologies (OEMT2018), 20 - 22 Eylül 2018
- XII. **Mechanical Performance of PP/BiSr<sub>2</sub>CaCu<sub>2</sub>O<sub>6.5</sub> Composites**  
ALKAN Ü., KILIÇ M., ERDÖNMEZ S., KARABUL Y., GÜVEN ÖZDEMİR Z., İÇELLİ O.  
International Conference on Organic Electronic Material Technologies (OEMT2018), 20 - 22 Eylül 2018
- XIII. **As A Negative Dielectric Constant Material: Eu<sub>0.7</sub>Bi<sub>0.3</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>6.5</sub>**  
Katma C., Karabul Y., Kılıç M., Güven Özdemir Z., İçelli O.  
Turkish Physical Society 34th International Physical Congress, Muğla, Türkiye, 5 - 09 Eylül 2018
- XIV. **Complex Impedance and Dielectric Spectra of Epoxy/Kufeki Stone Composites**  
TOPUZ S., KARABUL Y., KILIÇ M., GÜVEN ÖZDEMİR Z., İÇELLİ O.  
Turkish Physical Society 34th International Physical Congress, 5 - 09 Eylül 2018
- XV. **Radiation Shielding Ability of Basalt Reinforced Epoxy**  
KARA H., KARABUL Y., KILIÇ M., GÜVEN ÖZDEMİR Z., İÇELLİ O.  
Turkish Physical Society 34th International Physical Congress, 5 - 09 Eylül 2018
- XVI. **Investigation of gamma-ray shielding parameters of Na<sub>2</sub>Si<sub>3</sub>O<sub>7</sub>/Bi<sub>2</sub>O<sub>3</sub> glassy composites**  
DEMİRBAY T., KARABUL Y., KILIÇ M., GÜVEN ÖZDEMİR Z., İÇELLİ O.  
4 th International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Antalya, Türkiye, 20 Nisan 2018, ss.55
- XVII. **As a shielding glassy structures against gamma rays: epoxy/PbO and epoxy/BaO composites**  
ERGİN Y., KARABUL Y., KILIÇ M., GÜVEN ÖZDEMİR Z., İÇELLİ O.  
4 th International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Antalya, Türkiye, 20 Nisan 2018, ss.54
- XVIII. **X-ray shielding performance of sodium metasilicate/barium oxide glassy composites**  
KAYACIK H., KARABUL Y., KILIÇ M., GÜVEN ÖZDEMİR Z., İÇELLİ O.  
Theoretical and Experimental Studies in Nuclear Applications and Technology, 20 Nisan 2018
- XIX. **Study of electron density via some elements in breast cancer patients' blood samples**  
Toker O., Topdağı Ö., Bakırdere S., Bursahioğlu E. O., Öz E., Eyecioğlu Ö., Karabul Y., Çağlar M., İçelli O.  
International Advanced Researches and Engineering Congress, Osmaniye, Türkiye, 16 - 18 Kasım 2017, ss.2714
- XX. **Investigation of the variations in Se, Cr, Mn, Zn, Co, Na, K concentrations in blood samples of breast cancer patients**  
Toker O., Topdağı Ö., Bakırdere S., Bursahioğlu E. O., Öz E., Eyecioğlu Ö., Karabul Y., Çağlar M., İçelli O.  
International Advanced Researches and Engineering Congress, Osmaniye, Türkiye, 16 - 18 Kasım 2017, ss.2713
- XXI. **Mechanical and Dielectric Characterization of Polypropylene/Basalt Films Under Gamma-Ray**

## **Irradiation**

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

2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), Nevşehir, Türkiye, 11 Ekim 2017, ss.322

- XXII. **Temperature Dependent Dielectric Properties of EuxBi1-xSr2CaCu2O6.5 (x=0, 0.3, 0.5) Ceramic Composites**  
KILIÇ M., GÜVEN ÖZDEMİR Z., KARABUL Y., İÇELLİ O.  
2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), Nevşehir, Türkiye, 11 Ekim 2017, ss.168
- XXIII. **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.  
2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), Nevşehir, Türkiye, 11 Ekim 2017, ss.353
- XXIV. **LDPE/ PP Composites: Dielectric and Mechanical Properties Under Low Level Radiation**  
KILIÇ M., Alkan Ü., GÜVEN ÖZDEMİR Z., KARABUL Y., Çağlar M., İÇELLİ O.  
2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), Nevşehir, Türkiye, 11 Ekim 2017, ss.321
- XXV. **Sodium Silicate/Wolfram Glassy Composites: Investigation of Shielding and Dielectric Parameters**  
KARABUL Y., KILIÇ M., GÜVEN ÖZDEMİR Z., Çağlar M., İÇELLİ O.  
2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), Nevşehir, Türkiye, 11 Ekim 2017, ss.169
- XXVI. **Investigation of Shielding Properties: Sodium Silicate/Kufeki Glassy Structure**  
Bulgurcuoğlu A. E., Karabul Y., Kılıç M., Çağlar M., Güven Özdemir Z., İçelli O.  
2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), Nevşehir, Türkiye, 11 - 13 Ekim 2017, ss.256
- XXVII. **Mechanical and Dielectric Properties of Low Density Polyethylene/Borax Composites**  
Alkan Ü., Kılıç M., Karabul Y., İçelli O.  
Turkish Physical Society 33rd International Physics Congress, Muğla, Türkiye, 06 Eylül 2017, ss.177
- XXVIII. **Mechanical and Dielectric Properties of Polypropylene Composites Filled Borax**  
Alkan Ü., Kılıç M., Karabul Y., İçelli O.  
Turkish Physical Society 33rd International Physics Congress, Muğla, Türkiye, 06 Eylül 2017, ss.515
- XXIX. **Effect of Impurity Doping on the Optical Properties ZnS Films**  
Ulutaş Ü., YEŞİLKAYA S. S., KARABUL Y., YAĞCI Ö.  
TPS-33 International Physics Congress, Muğla, Türkiye, 06 Eylül 2017, ss.603
- XXX. **Polythiophene/Basalt Composites: Synthesis, Structural Analysis and Dielectric Properties**  
Bilen O., Karabul Y., Erdönmez S., Kılıç M., Güven Özdemir Z.  
International Conference on Environment and Natural Science (ICENS), Oxford, Birleşik Krallık, 19 - 20 Ağustos 2017, ss.41
- XXXI. **Structural and Dielectric Properties of Polypropylene/Volcanic Basalt Rock Thick Film Composites**  
Kılıç M., Karabul Y., Bulgurcuoğlu A. E., Güven Özdemir Z., Alkan Ü., İçelli O.  
International Engineering, Science and Education Conference 2016 (INESEC-2016), Diyarbakır, Türkiye, 1 - 03 Aralık 2016, ss.106
- XXXII. **The Effect of PANI on the PP Thick Film in terms of Dielectric and Mechanical Properties**  
Kılıç M., Alkan Ü., Karabul Y., İçelli O.  
2nd International Congress on the World of Technology and Advanced Materials (WITAM-2016), Kırşehir, Türkiye, 28 Eylül - 02 Ekim 2016
- XXXIII. **Development of Sodium Silicate Bismuth Glass as a Radiation Shielding**  
Karabul Y., Kılıç M., İçelli O.  
2nd International Congress on the World of Technology and Advanced Materials (WITAM-2016), Kırşehir, Türkiye, 28 Eylül - 02 Ekim 2016
- XXXIV. **Temperature Dependence of Dielectric Properties and Electrical Conductivity of EuBa2Ca2Cu3O9-x**

- Güven Özdemir Z., Kılıç M., Karabul Y., Süngü Mısırhoğlu B., Aslan Çataltepe Ö., İçelli O.  
2nd International Congress on The World of Technology and Advanced Materials (WITAM-2016), Kırşehir,  
Türkiye, 28 Eylül - 02 Ekim 2016, ss.161
- XXXV. **Eu-Ba-Ca-Cu-O Perovskite Material as a Negative Temperature Coefficient Thermistor**  
Güven Özdemir Z., Kılıç M., Karabul Y., Süngü Mısırhoğlu B., Aslan Çataltepe Ö., İçelli O.  
2nd International Congress on The World of Technology and Advanced Materials (WITAM-2016), Kırşehir,  
Türkiye, 28 Eylül - 02 Ekim 2016, ss.160
- XXXVI. **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, Türkiye, 17 -  
19 Mayıs 2016, ss.82
- XXXVII. **Determination of Radiation Shielding and Dielectric Properties on Sodium Silicate/Tungsten Glass Structure**  
Kılıç M., Karabul Y., Alkan Ü., Okutan M., Bakırdere S., İçelli O.  
2nd International Conference on Organic Electronic Material Technologies (OEMT-2016), Çanakkale, Türkiye, 17  
Mayıs 2016, ss.102
- XXXVIII. **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.  
2nd International Conference on Organic Electronic Material Technologies (OEMT-2016), Çanakkale, Türkiye, 17 -  
19 Mayıs 2016
- XXXIX. **Dielectric Characterization of Conducting Polymers/Borax Composites**  
Kılıç M., Karabul Y., Erdönmez S., Bulgurcuoğlu A. E., Yağcı Ö., Alkan Ü., Okutan M., İçelli O.  
2nd International Conference on Organic Electronic Material Technologies (OEMT-2016), Çanakkale, Türkiye, 17 -  
19 Mayıs 2016
- XL. **Magnetic Field Effect on Electrical Properties of Conducting PANI/Cu Composites**  
Karabul Y., Kılıç M., Okutan M., Bakırdere S., İçelli O.  
2nd International Conference on Organic Electronic Material Technologies (OEMT-2016), Çanakkale, Türkiye, 17 -  
19 Mayıs 2016
- XLI. **Impedance Properties of Conducting Polymers Basalt Composites Under Magnetic Field**  
Bulgurcuoğlu A. E., Erdönmez S., Karabul Y., Kılıç M., Yılmaz Canlı N., İçelli O., Okutan M.  
2nd International Conference on Organic Electronic Material Technologies (OEMT-2016), Çanakkale, Türkiye, 17 -  
19 Mayıs 2016, ss.1-2
- XLII. **A Comprehensive Study on Dielectric Properties of Volcanic Rock/PANI Composites**  
Kılıç M., Karabul Y., Okutan M., İçelli O.  
1st International Physics Conference at the Anatolian Peak, IPCAP 2016, Erzurum, Türkiye, 25 - 27 Şubat 2016,  
cilt.707
- XLIII. **Correlation between some elements in breast cancer patients' blood and tissue samples and their electron density**  
TOKER O., KARABUL Y., Bursahioğlu E. O., BAKIRDERE S., Sarıbal D., Eyecioğlu Ö., İÇELLİ O.  
International Physics Conference at Anatolian Peak, Erzurum, Türkiye, 25 Şubat 2016, ss.1
- XLIV. **Correlation between ratio of Na K Se Zn K P Cu Zn Se Fe Ca P at breast cancer patients blood samples which exposed to radiation and their electron density**  
Toker O., KARABUL Y., BURSALIOĞLU E. O., BAKIRDERE S., İÇELLİ O., Sarıbal Kanber D.  
The first International Physics Conference at the Anatolian Peak, Erzurum, Türkiye, 25 Şubat 2016, ss.294
- XLV. **Dielectric Characterization of Some Basalt Materials under Magnetic Field**  
Meltem Ç., Kılıç M., Karabul Y., Yılmaz Canlı N., Alkan Ü., Okutan M., İçelli O.  
Advanced and Functional Material Technologies (AFMAT2015), Antalya, Türkiye, 26 - 28 Ekim 2015, ss.48
- XLVI. **A Comprehensive Study on effect of gamma radiation for basalt reinforced low density polyethylene**  
Karabul Y., Kılıç M., Alkan Ü., Okutan M., İçelli O., Okutan M.  
THE 8th INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS (ROCAM2015), Bucuresti, Romanya, 7 - 10  
Temmuz 2015



- XLVII. Electrical and Mechanical Properties of PP/PANI Composites**  
Kılıç M., Alkan Ü., Karabul Y., Berber Yamak H., Okutan M., İçelli O.  
THE 8th INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS (ROCAM2015), Bucuresti, Romanya, 7 - 10 Temmuz 2015, ss.173
- XLVIII. Electrical mechanism of Basalts with Polyaniline pani composites**  
Karabul Y., Yılmaz M. A., Denктаş C., Okutan M., İçelli O.  
1st International Conference on Organic Electronic Material Technologies (OEMT'2015), Elazığ, Türkiye, 25 - 28 Mart 2015
- XLIX. Electrical and Mechanical Properties of PANI/LDPE Composites**  
Alkan Ü., Kılıç M., Karabul Y., Berber Yamak H., Okutan M., İçelli O.  
1st International Conference on Organic Electronic Material Technologies (OEMT'2015), Elazığ, Türkiye, 25 - 28 Mart 2015
- L. Mössbauer spectroscopy and its application**  
KARABUL Y., SUSAM L. A.  
10th International Student Conference of the Balkan Physical Union, İstanbul, Türkiye, 03 Eylül 2013, ss.49

## Desteklenen Projeler

- GÜVEN ÖZDEMİR Z., BEYAZAY E., KILIÇ M., İÇELLİ O., ALKAN Ü., KARABUL Y., Yükseköğretim Kurumları Destekli Proje, Polipropilen/Bi2O3 ve Polipropilen/WO3 Nano Kompozit Filmlerin Geliştirilmesi Elektrik ve Mekanik Özelliklerinin Tespiti, 2020 - 2022
- Kılıç M., Beyazay E., Güven Özdemir Z., Şahin N., Karabul Y., Alkan Ü., Yükseköğretim Kurumları Destekli Proje, Bazı Termoplastik Polimerlerin Elektrik ve Mekanik Özelliklerinin Çeşitli Takviye Malzemeleri ve Radyasyon ile Geliştirilmesi, 2020 - 2021
- İÇELLİ O., KARABUL Y., Yükseköğretim Kurumları Destekli Proje, YENİ NESİL RADYASYON ZIRHLAYICILAR: EPOKSİ TEMELLİ METAL OKSİT MİKRO VE NANO YAPILI KOMPOZİTLER, 2019 - 2021
- İÇELLİ O., GÜVEN ÖZDEMİR Z., KILIÇ M., KARABUL Y., Yükseköğretim Kurumları Destekli Proje, YÜKSEK RADYASYON ZIRHLAMA ÖZELLİĞİNE SAHİP AĞIR METAL OKSİT CAMLARIN ÜRETİLMESİ VE OPTİMİZASYONUN SAĞLANMASI, 2015 - 2018
- KILIÇ M., KARABUL Y., İÇELLİ O., ALKAN Ü., Yükseköğretim Kurumları Destekli Proje, POLİMERİK KOMPOZİTLERİN FARKLI SICAKLIKTAKİ DİELEKTRİK VE MEKANİK ÖZELLİKLERİN İNCELENMESİ, 2015 - 2017
- TÜBİTAK Projesi, Nükleer Spin Dağılım Fonksiyonunun Mikroskopik bir Yöntemle Hesaplanması, 2013 - 2015

## Bilimsel Kuruluşlardaki Üyelikler / Görevler

Türk Fizik Derneği, Üye, 2012 - Devam Ediyor

## Metrikler

Yayın: 102  
Atıf (WoS): 258  
Atıf (Scopus): 501  
H-İndeks (WoS): 9  
H-İndeks (Scopus): 12

## Davetli Konuşmalar

Enerji Verimliliği Haftası, Konferans, İSTANBUL İL MİLLÎ EĞİTİM MÜDÜRLÜĞÜ, Türkiye, Ocak 2024

## **Ödüller**

KARABUL Y., Sertifika Sınavı Birinciliđi, Nükleer Bilimler ve Uygulamaları Yaz Okulu, Haziran 2015