

## Asst. Prof. Yaşar KARABUL

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### Education Information

Doctorate, Yıldız Technical University, Faculty Of Arts & Science, Department Of Physics, Turkey 2015 - 2021

Postgraduate, İstanbul University, Faculty Of Science, Fizik, Turkey 2012 - 2014

Undergraduate, Abant İzzet Baysal Üniversitesi, Fen-Edebiyat Fakültesi, Fizik (İngilizce), Turkey 2007 - 2012

### Dissertations

Doctorate, New generation radiation shielding: epoxy based metal oxide micro and nano structured composites, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, 2021

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

### Research Areas

Physics, Atomic and Molecular Physics, Nuclear physics

### Academic Titles / Tasks

Assistant Professor, Yıldız Technical University, Faculty Of Arts & Science, Department Of Physics, 2022 - Continues  
Research Assistant, Yıldız Technical University, Faculty Of Arts & Science, Department Of Physics, 2014 - 2021

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

- I. LDPE/Bi<sub>2</sub>O<sub>3</sub> 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)
- II. 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., ESMER K.  
Polymer International, vol.73, no.1, pp.9-20, 2024 (SCI-Expanded)
- III. 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)
- IV. 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)
- 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, vol.138, no.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, vol.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, vol.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., Özdemir Z.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.139, no.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, vol.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., Özdemir Z.  
PHYSICA B-CONDENSED MATTER, vol.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, vol.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, vol.139, pp.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, vol.26, 2021 (SCI-Expanded)
- XIV. Low cost radiation shielding material for low energy radiation applications: Epoxy/Yahyalı Stone composites  
Sahin N., Bozkurt M., KARABUL Y., KILIÇ M., Ozdemir Z. G.  
PROGRESS IN NUCLEAR ENERGY, vol.135, 2021 (SCI-Expanded)
- XV. Structural characterization and dielectric parameters of polyindole/WO<sub>3</sub> nanocomposites  
Erdonmez S., Karabul Y., Kılıç M., Özdemir Z. G., Esmer K.  
POLYMER COMPOSITES, vol.42, no.3, pp.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, vol.62, no.9, pp.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, vol.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 ELECTROKERAMICS, vol.44, pp.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*, vol.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., İÇELİ O.  
*RADIATION EFFECTS AND DEFECTS IN SOLIDS*, vol.174, pp.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*, vol.174, pp.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*, vol.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*, vol.174, pp.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*, vol.26, pp.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., İÇELİ O.  
*Processing and Application of Ceramics*, vol.13, no.4, pp.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., Bakirdere S., Bursalioglu E. O., Öz E., Eyecoglu O., Karabul Y., Çağlar M., İçelli O.  
*ATOMIC SPECTROSCOPY*, vol.40, pp.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*, vol.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*, vol.41, no.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., İÇELİ O., BOYDAŞ E.  
*RADIATION EFFECTS AND DEFECTS IN SOLIDS*, vol.173, pp.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*, vol.28, pp.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*, vol.24, pp.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, vol.17, pp.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., KURUDIREK M., Ekici M., İÇELİ O., KARABUL Y.  
PROGRESS IN NUCLEAR ENERGY, vol.100, pp.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, vol.63, pp.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., İÇELİ O.  
NUCLEAR SCIENCE AND TECHNIQUES, vol.28, no.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., DEMIR M., KARABUL Y., BALKAN B., ÖZ E., İÇELİ O.  
MEASUREMENT, vol.100, pp.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., Yağcı Ö., Okutan M., Okutan M., İçelli O.  
Physicochemical Problems of Mineral Processing, vol.53, no.1, pp.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., İÇELİ O., Onbasli U.  
FERROELECTRICS, vol.510, no.1, pp.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 NANO ELECTRONICS AND OPTOELECTRONICS, vol.11, pp.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., Bakirdere S., İçelli O.  
DRYING TECHNOLOGY, vol.34, pp.1445-1454, 2016 (SCI-Expanded)
- XLII. **ZXCOM: a software for computation of radiation sensing attributes**  
Eyecioglu O., KARABUL Y., EL-KHAYATT A. M., Iclli O.  
RADIATION EFFECTS AND DEFECTS IN SOLIDS, vol.171, pp.965-977, 2016 (SCI-Expanded)
- XLIII. **Computation of EABF and EBF for basalt rock samples**  
KARABUL Y., Susam L. A., İÇELİ O., Eyecioglu O.  
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.797, pp.29-36, 2015 (SCI-Expanded)

## Articles Published in Other Journals

- 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, vol.35, no.1, pp.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, vol.16, pp.256-266, 2019 (Peer-Reviewed Journal)
- 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, vol.15, pp.552-560, 2019 (Peer-Reviewed Journal)

- 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, vol.18, pp.426-433, 2018 (Peer-Reviewed Journal)
- V. **PT/BORAX COMPOSITE AS A HIGH DIELECTRIC CONSTANT MATERIAL WITH LOWER DIELECTRIC LOSS**  
 KILIÇ M., KARABUL Y., GÜVEN ÖZDEMİR Z., İCELLİ O.  
 ANADOLU UNIVERSITY JOURNAL OF SCIENCE AND TECHNOLOGY - A APPLIED SCIENCES AND ENGINEERING, vol.18, no.5, pp.1089-1097, 2017 (Peer-Reviewed Journal)
- 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, vol.2, no.2, pp.42-48, 2016 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **GAMMA-RAY SHIELDING PARAMETERS FOR PC/BATIO3 COMPOSITES**  
 Erdönmez S., Çağlar M., Eşitmez D., Karabul Y.  
 in: Engineering Sciences Issues, Opportunities and Researches, Halil İbrahim Kurt, Engin Ergül, Editor, LIVRE DE LYON, Lyon, pp.133-144, 2023
- II. **TERMOPLASTİK POLİÜRETAN/GADOLINYUM OKSİT KOMPOZİTLERİNİN RADYASYON ZIRHLAMA ÖZELLİKLERİİNİN İNCELENMESİ**  
 Karabul Y., Erdönmez S., Çağlar M.  
 in: FEN VE MÜHENDİSLİKTE ANALİZ, SENTEZ VE UYGULAMALAR, Serkan GÜLDAL, Editor, İKSAD, Ankara, pp.35-48, 2023
- III. **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

## Refereed Congress / Symposium Publications in Proceedings

- 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, Turkey, 31 August - 04 September 2022, pp.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, Turkey, 1 - 05 September 2021, pp.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, Turkey, 4 - 06 October 2019, pp.411-412
- IV. **Enhanced Conductivity at PPy with the Addition of Tungsten Based Oxide Nanoparticles**  
 ERDÖNMEZ S., TOPUZ S., KARABUL Y., KILIÇ M., İCELLİ O., GÜVEN ÖZDEMİR Z.  
 Balkan 1. Uluslararası Uygulamalı Bilimler Kongresi, 5 - 07 April 2019
- V. **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**

- İncedal İ., Erdönmez S., Karabul Y., Kılıç M., İçelli O., Güven Özdemir Z.  
Balkan 1. Uluslararası Uygulamalı Bilimler Kongresi, Edirne, Turkey, 5 - 07 April 2019
- VI. **The Complex Permittivity and AC Conductivity Analysis of PIIn/Nano Structured WO<sub>3</sub> Composites**  
ERDÖNMEZ S., ONGUN İ. E., KARABUL Y., KILIÇ M., İÇELİ O., GÜVEN ÖZDEMİR Z.  
Balkan 1. Uluslararası Uygulamalı Bilimler Kongresi, 5 - 07 April 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, Turkey, 5 - 07 April 2019, pp.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, Turkey, 5 - 07 April 2019, pp.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 December 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, Turkey, 4 - 06 October 2019, pp.509-510
- XI. **The Influence of Nano Structured Tungsten Oxide Additive On The Impedance Spectrum of Polythiophene**  
ERDÖNMEZ S., KARABUL Y., KILIÇ M., İÇELİ O., GÜVEN ÖZDEMİR Z.  
3rd International Conference on Organic Electronic Material Technologies (OEMT2018), 20 - 22 September 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., İÇELİ O.  
International Conference on Organic Electronic Material Technologies (OEMT2018), 20 - 22 September 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, Turkey, 5 - 09 September 2018
- XIV. **Complex Impedance and Dielectric Spectra of Epoxy/Kufeki Stone Composites**  
TOPUZ S., KARABUL Y., KILIÇ M., GÜVEN ÖZDEMİR Z., İÇELİ O.  
Turkish Physical Society 34th International Physical Congress, 5 - 09 September 2018
- XV. **Radiation Shielding Ability of Basalt Reinforced Epoxy**  
KARA H., KARABUL Y., KILIÇ M., GÜVEN ÖZDEMİR Z., İÇELİ O.  
Turkish Physical Society 34th International Physical Congress, 5 - 09 September 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**  
DEMİRBAŞ T., KARABUL Y., KILIÇ M., GÜVEN ÖZDEMİR Z., İÇELİ O.  
4 th International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Antalya, Turkey, 20 April 2018, pp.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., İÇELİ O.  
4 th International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Antalya, Turkey, 20 April 2018, pp.54
- XVIII. **X-ray shielding performance of sodium metasilicate/barium oxide glassy composites**  
KAYACIK H., KARABUL Y., KILIÇ M., GÜVEN ÖZDEMİR Z., İÇELİ O.  
Theoretical and Experimental Studies in Nuclear Applications and Technology, 20 April 2018
- XIX. **Study of electron density via some elements in breast cancer patients' blood samples**  
Toker O., Topdağı Ö., Bakırdere S., Bursalioglu E. O., Öz E., Eyecioğlu Ö., Karabul Y., Çağlar M., İçelli O.  
International Advanced Researches and Engineering Congress, Osmaniye, Turkey, 16 - 18 November 2017, pp.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., Bursalioğlu E. O., Öz E., Eyecioğlu Ö., Karabul Y., Çağlar M., İçelli O.  
International Advanced Researches and Engineering Congress, Osmaniye, Turkey, 16 - 18 November 2017,  
pp.2713
- XXI. Mechanical and Dielectric Characterization of Polypropylene/Basalt Films Under Gamma-Ray Irradiation**  
KARABUL Y., Alkan Ü., KILIÇ M., GÜVEN ÖZDEMİR Z., İÇELİ O.  
2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), Nevşehir, Turkey,  
11 October 2017, pp.322
- XXII. Temperature Dependent Dielectric Properties of  $EuxBi_{1-x}Sr_2CaCu2O_{6.5}$  ( $x=0, 0.3, 0.5$ ) Ceramic Composites**  
KILIÇ M., GÜVEN ÖZDEMİR Z., KARABUL Y., İÇELİ O.  
2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), Nevşehir, Turkey,  
11 October 2017, pp.168
- XXIII. Enhance of The Radiation Shielding Performance of Concrete with Kufeki Stone Additive**  
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- XXIV. LDPE/ PP Composites: Dielectric and Mechanical Properties Under Low Level Radiation**  
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- XXV. Sodium Silicate/Wolfram Glassy Composites: Investigation of Shielding and Dielectric Parameters**  
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- 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, Turkey,  
11 - 13 October 2017, pp.256
- XXVII. Mechanical and Dielectric Properties of Low Density Polyethylene/Borax Compsites**  
Alkan Ü., Kılıç M., Karabul Y., İçelli O.  
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- XXVIII. Mechanical and Dielectric Properties of Polypropylene Composites Filled Borax**  
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- XXIX. Effect of Impurity Doping on the Optical Properties ZnS Films**  
Ulutaş Ü., YEŞİLKAYA S. S., KARABUL Y., YAĞÇI Ö.  
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- XXX. Polythiophene/Basalt Composites: Synthesis, Structural Analysis and Dielectric Properties**  
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- XXXI. Structural and Dielectric Properties of Polypropylene/Volcanic Basalt Rock Thick Film Composites**  
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International Engineering, Science and Education Conference 2016 (INESEC-2016), Diyarbakır, Turkey, 1 - 03  
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- 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, Turkey,  
28 September - 02 October 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, Turkey,  
28 September - 02 October 2016
- XXXIV. **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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- XXXV. **Eu-Ba-Ca-Cu-O Perovskite Material as a Negative Temperature Coefficient Thermistor**  
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- 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., Onbaşlı Ü.  
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19 May 2016, pp.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.  
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May 2016, pp.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., Altindal A.  
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- XXXIX. **Dielectric Characterization of Conducting Polymers/Borax Composites**  
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- XL. **Magnetic Field Effect on Electrical Properties of Conducting PANI/Cu Composites**  
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- XLI. **Impedance Properties of Conducting Polymers Basalt Composites Under Magnetic Field**  
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2nd International Conference on Organic Electronic Material Technologies (OEMT-2016), Çanakkale, Turkey, 17 -  
19 May 2016, pp.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, Turkey, 25 - 27 February 2016,  
vol.707
- XLIII. **Correlation between some elements in breast cancer patients' blood and tissue samples and their electron density**  
TOKER O., KARABUL Y., BURSALIOĞLU E. O., BAKIRDERE S., Saribal D., Eyecioğlu Ö., İÇELİ O.  
International Physics Conference at Anatolian Peak, Erzurum, Turkey, 25 February 2016, pp.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., Saribal Kanber D.  
The first International Physics Conference at the Anatolian Peak, Erzurum, Turkey, 25 February 2016, pp.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, Turkey, 26 - 28 October 2015, pp.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, Romania, 7 - 10 July 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, Romania, 7 - 10 July 2015, pp.173
- XLVIII. Electrical mechanism of Basalts with Polyaniline pani composites**  
 Karabul Y., Yılmaz M. A., Denktaş C., Okutan M., İçelli O.  
 1st International Conference on Organic Electronic Material Technologies (OEMT'2015), Elazığ, Turkey, 25 - 28 March 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, Turkey, 25 - 28 March 2015
- L. Mössbauer spectroscopy and its application**  
 KARABUL Y., SUSAM L. A.  
 10th International Student Conference of the Balkan Physical Union, İstanbul, Turkey, 03 September 2013, pp.49

## Supported Projects

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

Kılıç M., Beyazay E., Güven Özdemir Z., Şahin N., Karabul Y., Alkan Ü., Project Supported by Higher Education Institutions, Bazi Termoplastik Polimerlerin Elektrik ve Mekanik Özelliklerinin Çeşitli Takviye Malzemeleri ve Radyasyon ile Geliştirilmesi, 2020 - 2021

İÇELLİ O., KARABUL Y., Project Supported by Higher Education Institutions, YENİ NESİL RADYASYON ZIRHLAYICILAR: EPOKSİ TEMELLİ METAL OKSİT MİKRO VE NANO YAPILI KOMPOZİTLER, 2019 - 2021

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

KILIÇ M., KARABUL Y., İÇELLİ O., ALKAN Ü., Project Supported by Higher Education Institutions, POLİMERİK KOMPOZİTLERİN FARKLI SICAKLIKTA DİELEKTRİK VE MEKANİK ÖZELLİKLERİN İNCELENMESİ, 2015 - 2017  
 TUBITAK Project, Nükleer Spin Dağılım Fonksiyonunun Mikroskopik bir Yöntemle Hesaplanması, 2013 - 2015

## Memberships / Tasks in Scientific Organizations

Türk Fizik Derneği, Member, 2012 - Continues

## Metrics

Publication: 102

Citation (WoS): 258

Citation (Scopus): 457

H-Index (WoS): 9

H-Index (Scopus): 12

## Invited Talks

Enerji Verimliliği Haftası, Conference, İSTANBUL İL MİLLÎ EĞİTİM MÜDÜRLÜĞÜ, Turkey, January 2024

## Awards

KARABUL Y., Sertifika Sınavı Birinciliği, Nükleer Bilimler ve Uygulamaları Yaz Okulu, June 2015