

## Arş. Gör. Ozan TOKER

### Kişisel Bilgiler

E-posta: ozant@yildiz.edu.tr

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

### Uluslararası Araştırmacı ID'leri

ORCID: 0000-0002-5566-0298

ScopusID: 57202340458

Yoksis Araştırmacı ID: 267170

### Araştırma Alanları

Tıp, Sağlık Bilimleri, Dahili Tıp Bilimleri, Nükleer Tıp, Radyasyon Onkolojisi, Fizik, Disiplinlerarası Fizik ve İlgili Bilim ve Teknoloji Alanları, Biyolojik ve tıbbi fizik, Malzeme Bilimi, Nükleer Fizik, Temel Bilimler

### Akademik Unvanlar / Görevler

Araştırma Görevlisi, Yıldız Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2017 - Devam Ediyor

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

- I. **An alternative approach for determining the effective atomic number of some compounds: Monte Carlo study**  
Özşahin M., KALECİK S., TOKER O., KURUCU Y., İÇELLİ O.  
Radiation Physics and Chemistry, cilt.215, 2024 (SCI-Expanded)
- II. **An investigation on compatibility of experimental effective atomic numbers of some Fe-Ni alloys with those predicted by MCNP**  
KALECİK S., YILMAZ D., KURUCU Y., GÜROL A., TOKER O., İÇELLİ O.  
RADIATION PHYSICS AND CHEMISTRY, cilt.202, 2023 (SCI-Expanded)
- III. **Monte Carlo study on size-dependent radiation enhancement effects of spinel ferrite nanoparticles**  
Bilmez B., Toker M. O., TOKER O., İÇELLİ O.  
RADIATION PHYSICS AND CHEMISTRY, cilt.199, 2022 (SCI-Expanded)
- IV. **A comparative study on applicability and efficiency of machine learning algorithms for modeling gamma-ray shielding behaviors**  
Bilmez B., TOKER O., ALP S., ÖZ E., İÇELLİ O.  
NUCLEAR ENGINEERING AND TECHNOLOGY, cilt.54, sa.1, ss.310-317, 2022 (SCI-Expanded)
- V. **Efficiency analysis of multiple detector effects on MCNP 6.2 simulations**  
AKÇALI Ö., TOKER O., Bilmez B., İÇELLİ O.  
Progress in Nuclear Energy, cilt.139, 2021 (SCI-Expanded)
- VI. **Practical simulation method for determination of effective atomic number from Rayleigh to Compton scattering ratio by MCNP**  
TOKER O., Bilmez B., AKÇALI Ö., Özşahin Toker M., İÇELLİ O.  
Radiation Physics and Chemistry, cilt.181, 2021 (SCI-Expanded)
- VII. **Evaluation of three different glassy composites (quinary matrix designed using Cr2O3/Na2O/MnO2)**

**in respect of radiation shielding behaviors**

TOKER O., Bilmez B., Toker M. O., KAVANOZ H. B., AKÇALI Ö., YILMAZ M., İÇELLİ O.

RADIATION EFFECTS AND DEFECTS IN SOLIDS, cilt.176, sa.9-10, ss.967-981, 2021 (SCI-Expanded)

- VIII. **An investigation on gamma-ray shielding properties of quaternary glassy composite (Na<sub>2</sub>Si<sub>3</sub>O<sub>7</sub>/Bi<sub>2</sub>O<sub>3</sub>/ B<sub>2</sub>O<sub>3</sub>/Sb<sub>2</sub>O<sub>3</sub>) by BXCUM and MCNP 6.2 code**  
AKÇALI Ö., Çağlar M., TOKER O., Bilmez B., KAVANOZ H. B., İÇELLİ O.  
Progress in Nuclear Energy, cilt.125, 2020 (SCI-Expanded)
- IX. **Comparison of ITO and ZnO ternary glassy composites in terms of radiation shielding properties by Monte Carlo N-particle transport code and BXCUM**  
TOKER O., Bilmez B., KAVANOZ H. B., AKÇALI Ö., İÇELLİ O.  
RADIATION AND ENVIRONMENTAL BIOPHYSICS, cilt.59, sa.2, ss.283-293, 2020 (SCI-Expanded)
- X. **Determination of Trace Element Concentrations in Blood Samples and Their Correlation to Breast Cancer**  
TOPDAĞI Ö., TOKER O., BAKIRDERE S., ÖZ E., Bursalioglu E. O., Abuqbeith M., Demir M., İÇELLİ O.  
ATOMIC SPECTROSCOPY, cilt.41, sa.1, ss.29-35, 2020 (SCI-Expanded)
- XI. **A novel comprehensive utilization of vanadium slag/epoxy resin/antimony trioxide ternary composite as gamma ray shielding material by MCNP 6.2 and BXCUM**  
Kavanoz H. B., Akçalı Ö., Toker O., Bilmez B., Çağlar M., İçelli O.  
Radiation Physics and Chemistry, cilt.165, 2019 (SCI-Expanded)
- XII. **Radiation interaction parameters for blood samples of breast cancer patients: an MCNP study**  
Toker O., Caglar M., Öz E., Bakırdere S., Topdağı Ö., Eyecioglu O., İçelli O.  
RADIATION AND ENVIRONMENTAL BIOPHYSICS, cilt.58, sa.4, ss.531-537, 2019 (SCI-Expanded)
- XIII. **BXCUM: 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)
- XIV. **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., Bursalioglu E. O., Öz E., Eyecioglu O., Karabul Y., Çağlar M., İçelli O.  
ATOMIC SPECTROSCOPY, cilt.40, ss.11-16, 2019 (SCI-Expanded)
- XV. **Correlation between Na/K ratio and electron densities in blood samples of breast cancer patients**  
Topdağı Ö., Toker O., Bakırdere S., Bursalioglu E. O., Öz E., Eyecioglu O., Demir M., İçelli O.  
BIOMETALS, cilt.31, ss.673-678, 2018 (SCI-Expanded)

## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **An investigation of ternary composites as gamma ray shielding material by Monte Carlo simulation and BXCUM**  
Kavanoz H. B., Akçalı Ö., Toker O., Bilmez B., Yılmaz M., Çağlar M., İçelli O.  
Eighth Bozok Science Workshop, Yozgat, Türkiye, 25 - 27 Temmuz 2019
- II. **A Monte Carlo Simulation Study of Na<sub>2</sub>Si<sub>3</sub>O<sub>7</sub> / Bi<sub>2</sub>O<sub>3</sub> / B<sub>2</sub>O<sub>3</sub> /Sb<sub>2</sub>O<sub>3</sub> quaternary glassy composites for radiation shielding**  
Akçalı Ö., Kavanoz H. B., Toker O., Bilmez B., Çağlar M., Yılmaz M., İçelli O.  
Eighth Bozok Workshop, Yozgat, Türkiye, 25 - 27 Temmuz 2019, ss.1
- III. **The Device Design for Thin-Film Coating That Combines Different Techniques for High Efficiency**  
Özşahin M., Toker O., Kılıç M., Bakırdere S., İçelli O.  
Balkan 1. Uluslararası Uygulamalı Bilimler Kongresi, Edirne, Türkiye, 5 - 07 Nisan 2019, ss.63-64
- IV. **Prediction Of Breast Cancer Pattern Using Artificial Neural Network Algorithms**  
Toker O., Alp S., Topdağı Ö., Eyecioglu Ö., Beken M., Öz E., İçelli O.  
4th International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Antalya, Türkiye, 20 - 22 Nisan 2018, ss.78

- V. **Classification of breast cancer patients' blood samples using machine learning algorithms**  
Toker O., Alp S., Topdađı Ö., Eyeciođlu Ö., Beken M., Öz E., İçelli O.  
4th International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Antalya, Türkiye, 20 - 22 Nisan 2018, ss.79
- VI. **Study of electron density via some elements in breast cancer patients' blood samples**  
Toker O., Topdađı Ö., Bakırdere S., Bursalıođlu E. O., Öz E., Eyeciođlu Ö., Karabul Y., Çađlar M., İçelli O.  
International Advanced Researches and Engineering Congress, Osmaniye, Türkiye, 16 - 18 Kasım 2017, ss.2714
- VII. **Investigation of the variations in Se, Cr, Mn, Zn, Co, Na, K concentrations in blood samples of breast cancer patients**  
Toker O., Topdađı Ö., Bakırdere S., Bursalıođlu E. O., Öz E., Eyeciođlu Ö., Karabul Y., Çađlar M., İçelli O.  
International Advanced Researches and Engineering Congress, Osmaniye, Türkiye, 16 - 18 Kasım 2017, ss.2713
- VIII. **Correlation between some elements in breast cancer patients' blood and tissue samples and their electron density**  
TOKER O., KARABUL Y., Bursalıođlu E. O., BAKIRDERE S., Sarıbal D., Eyeciođlu Ö., İÇELLİ O.  
International Physics Conference at Anatolian Peak, Erzurum, Türkiye, 25 Şubat 2016, ss.1
- IX. **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., BURSALIOGLU 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

## Metrikler

Yayın: 25

Atıf (WoS): 73

Atıf (Scopus): 109

H-İndeks (WoS): 4

H-İndeks (Scopus): 4

## Kongre ve Sempozyum Katılımı Faaliyetleri

International Advanced Researches and Engineering Congress, Katılımcı, Osmaniye, Türkiye, 2017

International Physics Conference at Anatolian Peak, Katılımcı, Erzurum, Türkiye, 2016