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## Research Areas

Medicine, Health Sciences, Internal Medicine Sciences, Nuclear medicine, Radiation Oncology, Physics, Interdisciplinary Physics and Related Science and Technology Areas, Biophysics and Medical Physics, Materials Science, Nuclear physics, Natural Sciences

## Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2017 - Continues

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

- I. **An alternative approach for determining the effective atomic number of some compounds: Monte Carlo study**  
Ozsahin M., KALECİK S., TOKER O., KURUCU Y., İÇELLİ O.  
Radiation Physics and Chemistry, vol.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, vol.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, vol.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, vol.54, no.1, pp.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, vol.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, vol.181, 2021 (SCI-Expanded)

- VII. **Evaluation of three different glassy composites (quinary matrix designed using Cr<sub>2</sub>O<sub>3</sub>/Na<sub>2</sub>O/MnO<sub>2</sub>) 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, vol.176, no.9-10, pp.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 BXCOM and MCNP 6.2 code**  
 AKÇALI Ö., Çağlar M., TOKER O., Bilmez B., KAVANOZ H. B., İÇELLİ O.  
 Progress in Nuclear Energy, vol.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 BXCOM**  
 TOKER O., Bilmez B., KAVANOZ H. B., AKÇALI Ö., İÇELLİ O.  
 RADIATION AND ENVIRONMENTAL BIOPHYSICS, vol.59, no.2, pp.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, vol.41, no.1, pp.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 BXCOM**  
 Kavanoz H. B., Akçalı Ö., Toker O., Bilmez B., Çağlar M., İçelli O.  
 Radiation Physics and Chemistry, vol.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., Eyecioğlu O., İçelli O.  
 RADIATION AND ENVIRONMENTAL BIOPHYSICS, vol.58, no.4, pp.531-537, 2019 (SCI-Expanded)
- XIII. **BXCOM: a software for computation of radiation sensing**  
 Eyecioğlu O., El-Khayatt A. M., KARABUL Y., Caglar M., TOKER O., İÇELLİ O.  
 RADIATION EFFECTS AND DEFECTS IN SOLIDS, vol.174, pp.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., Eyecioğlu O., Karabul Y., Çağlar M., İçelli O.  
 ATOMIC SPECTROSCOPY, vol.40, pp.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., Eyecioğlu O., Demir M., İçelli O.  
 BIOMETALS, vol.31, pp.673-678, 2018 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **An investigation of ternary composites as gamma ray shielding material by Monte Carlo simulation and BXCOM**  
 Kavanoz H. B., Akçalı Ö., Toker O., Bilmez B., Yılmaz M., Çağlar M., İçelli O.  
 Eighth Bozok Science Workshop, Yozgat, Turkey, 25 - 27 July 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, Turkey, 25 - 27 July 2019, pp.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, Turkey, 5 - 07 April 2019, pp.63-64
- IV. **Prediction Of Breast Cancer Pattern Using Artificial Neural Network Algorithms**  
 Toker O., Alp S., Topdağı Ö., Eyecioğlu Ö., Beken M., Öz E., İçelli O.  
 4th International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology,

Antalya, Turkey, 20 - 22 April 2018, pp.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, Turkey, 20 - 22 April 2018, pp.79
- VI. **Study of electron density via some elements in breast cancer patients' blood samples**  
Toker O., Topdađı Ö., Bakırdere S., Bursahoglu E. O., Öz E., Eyeciođlu Ö., Karabul Y., Çađlar M., İçelli O.  
International Advanced Researches and Engineering Congress, Osmaniye, Turkey, 16 - 18 November 2017, pp.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., Bursahoglu E. O., Öz E., Eyeciođlu Ö., Karabul Y., Çađlar M., İçelli O.  
International Advanced Researches and Engineering Congress, Osmaniye, Turkey, 16 - 18 November 2017, pp.2713
- VIII. **Correlation between some elements in breast cancer patients' blood and tissue samples and their electron density**  
TOKER O., KARABUL Y., Bursahoglu E. O., BAKIRDERE S., Saribal D., Eyeciođlu Ö., İÇELLİ O.  
International Physics Conference at Anatolian Peak, Erzurum, Turkey, 25 February 2016, pp.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., Saribal Kanber D.  
The first International Physics Conference at the Anatolian Peak, Erzurum, Turkey, 25 February 2016, pp.294

## Metrics

Publication: 25

Citation (WoS): 73

Citation (Scopus): 109

H-Index (WoS): 4

H-Index (Scopus): 4

## Congress and Symposium Activities

International Advanced Researches and Engineering Congress, Attendee, Osmaniye, Turkey, 2017

International Physics Conference at Anatolian Peak, Attendee, Erzurum, Turkey, 2016