

Personal Information

Email: ozant@yildiz.edu.tr

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

International Researcher IDs

ORCID: 0000-0002-5566-0298

ScopusID: 57202340458

Yoksis Researcher ID: 267170

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. **A Monte Carlo-based approach to determine effective atomic numbers of low-Z explosives in landmines**
ÖZŞAHİN TOKER M., Yavas K., TOKER O., İÇELLİ O.
Radiation Effects and Defects in Solids, 2025 (SCI-Expanded)
- II. **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)
- III. **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)
- IV. **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)
- V. **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)
- VI. **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)

- VII. **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)
- VIII. **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, vol.176, no.9-10, pp.967-981, 2021 (SCI-Expanded)
- IX. **An investigation on gamma-ray shielding properties of quaternary glassy composite (Na2Si3O7/Bi2O3/ B2O3/Sb2O3) by BXCUM 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)
- X. **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, vol.59, no.2, pp.283-293, 2020 (SCI-Expanded)
- XI. **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)
- XII. **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, vol.165, 2019 (SCI-Expanded)
- XIII. **Radiation interaction parameters for blood samples of breast cancer patients: an MCNP study**
 Toker O., Caglar M., Öz E., Bakirdere S., Topdağı Ö., Eyecioglu O., İçelli O.
 RADIATION AND ENVIRONMENTAL BIOPHYSICS, vol.58, no.4, pp.531-537, 2019 (SCI-Expanded)
- XIV. **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, vol.174, pp.506-518, 2019 (SCI-Expanded)
- XV. **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., Eyecioglu O., Karabul Y., Çağlar M., İçelli O.
 ATOMIC SPECTROSCOPY, vol.40, pp.11-16, 2019 (SCI-Expanded)
- XVI. **Correlation between Na/K ratio and electron densities in blood samples of breast cancer patients**
 Topdağı Ö., Toker O., Bakirdere S., Bursalioglu E. O., Öz E., Eyecioglu O., Demir M., İçelli O.
 BIOMETALS, vol.31, pp.673-678, 2018 (SCI-Expanded)

Papers Published in Refereed Scientific Meetings

- I. **XRF SPECTROSCOPY ANALYSIS OF CEMENT VIA MCNP SIMULATIONS**
 Yavaş K., TOKER O., Özşahin Toker M., AKÇALI Ö., İÇELLİ O.
 TURKISH PHYSICAL SOCIETY 39TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2023
- II. **GTV PREDICTION WITH MACHINE LEARNING**
 Kemal Z., Konuk M., TOKER O., İÇELLİ O.
 TURKISH PHYSICAL SOCIETY 39TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2023
- III. **OBTAINING DOSE ENHANCEMENT FACTORS OF SOME DRUGS VIA MCNP**
 Eminoğlu H. F., Yakut Y., TOKER O., Özşahin Toker M., İÇELLİ O.

TURKISH PHYSICAL SOCIETY 39TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2023

- IV. **TUMOUR VOLUME ESTIMATION WITH ARTIFICIAL INTELLIGENCE AND OPTIMUM RADIATION APPLICATION**
Kemal Z., TOKER O., AKÇALI Ö., İÇELLİ O.
TURKISH PHYSICAL SOCIETY 39TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2023
- V. **COMPARATIVE ANALYSIS OF EXPERIMENTAL AND SIMULATED X-RAY FLUORESCENCE SPECTRA OF STAINLESS STEELS**
Keskin U., Özşahin Toker M., TOKER O., AKÇALI Ö., İÇELLİ O.
TURKISH PHYSICAL SOCIETY 39TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2023
- VI. **INPGEN – A SUPPORTIVE SOFTWARE FOR MONTE CARLO N PARTICLE SIMULATIONS**
Eminoğlu H. F., TOKER O., AKÇALI Ö., İÇELLİ O.
TURKISH PHYSICAL SOCIETY 39TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2023
- VII. **COMPARISON OF COMPOSITE AND MULTILAYERED SHIELDING MATERIALS ON MCNP SIMULATIONS**
Yavaş K., TOKER O., Özşahin Toker M., AKÇALI Ö., İÇELLİ O.
TURKISH PHYSICAL SOCIETY 39TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2023
- VIII. **MAPPING DOSE DISTRIBUTION OF AN ANGIOGRAPHY CHAMBER WITH MCNP**
Hırsiroğlu Ayar K., Keskin U., Özşahin Toker M., TOKER O., İÇELLİ O.
TURKISH PHYSICAL SOCIETY 39TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2023
- IX. **Investigation of the effect of flattening filters on photon spectra in medical linac with MCNP 6.2**
Duha A., BİLMEZ B., TOKER O., BAŞTUĞ A., İÇELLİ O.
2nd International Dicle Scientific Studies and Innovation Congress, 2022, Diyarbakır, Türkiye, Diyarbakır, Turkey, 28 May 2022, pp.546-556
- X. **An investigation of ternary composites as gamma ray shielding material by Monte Carlo simulation and BXCUM**
KAVANOZ H. B., AKÇALI Ö., TOKER O., BİLMEZ B., YILMAZ M., ÇAĞLAR M., İÇELLİ O.
Eighth Bozok Science Workshop, Yozgat, Turkey, 25 - 27 July 2019
- XI. **A Monte Carlo Simulation Study of Na₂Si₃O₇ / Bi₂O₃ / B₂O₃ /Sb₂O₃ quaternary glassy composites for radiation shielding**
AKÇALI Ö., KAVANOZ H. B., TOKER O., BİLMEZ B., ÇAĞLAR M., YILMAZ M., İÇELLİ O.
Eighth Bozok Workshop, Yozgat, Turkey, 25 - 27 July 2019
- XII. **The Device Design for Thin-Film Coating That Combines Different Techniques for High Efficiency**
Özşahin Toker M., TOKER O., KILIÇ M., BAKIRDERE S., İÇELLİ O.
Balkan 1. Uluslararası Uygulamalı Bilimler Kongresi, Edirne, Turkey, 5 - 07 April 2019
- XIII. **Prediction Of Breast Cancer Pattern Using Artificial Neural Network Algorithms**
TOKER O., ALP S., EYECİOĞLU Ö., TOPDAĞI Ö., BEKEN M., ÖZ E., İÇELLİ O.
International Conference Series Theoretical and Experimental Studies in Nuclear Applications and Technology, 20 - 22 April 2018
- XIV. **Classification of breast cancer patients' blood samples using machine learning algorithms**
TOKER O., ALP S., TOPDAĞI Ö., EYECİOĞLU Ö., BEKEN M., ÖZ E., İÇELLİ O.
Theoretical and Experimental Studies in Nuclear Applications and Technology, 20 April 2018
- XV. **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, Turkey, 16 - 18 November 2017, pp.2713

- XVI. **Study of electron density via some elements in breast cancer patients' blood samples**
Toker O., Topdađı Ő., Bakırdere S., Bursalıođlu E. O., Őz E., Eyeciođlu Ő., Karabul Y., ađlar M., İelli O.
International Advanced Researches and Engineering Congress, Osmaniye, Turkey, 16 - 18 November 2017,
pp.2714
- XVII. **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., İELLİ O., Sarıbal Kanber D.
The first International Physics Conference at the Anatolian Peak, Erzurum, Turkey, 25 February 2016, pp.294
- XVIII. **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 Ő., İELLİ O.
International Physics Conference at Anatolian Peak, Erzurum, Turkey, 25 February 2016, pp.1

Metrics

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H-Index (Scopus): 6

Congress and Symposium Activities

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

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