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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAH-4270-2021

ScopusID: 55062460600

Yoksis Researcher ID: 117993

Education Information

Doctorate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (Dr), Turkey 2010 - 2014

Postgraduate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (Yl) (Tezli), Turkey 2008 - 2010

Undergraduate, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, Fizik Bölümü, Turkey 2003 - 2007

Research Areas

Experimental Methods of Particle and Nuclear Physics, Radioactive decay and in-beam spectroscopy

Academic Titles / Tasks

Associate Professor, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, FİZİK, 2019 - Continues

Assistant Professor, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, FİZİK, 2017 - 2019

Research Assistant, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, FİZİK, 2014 - 2018

Research Assistant, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik, 2010 - 2014

Academic and Administrative Experience

Fakülte Yönetim Kurulu Üyesi, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, FİZİK, 2022 - Continues

Courses

Radyasyon ve Radyasyon Dozimetresi, Doctorate, 2017 - 2018

TEMEL FİZİK II LABORATUVARI, Undergraduate, 2017 - 2018

Nükleer Olaylar için Sayısal Uygulamalar I, Doctorate, 2017 - 2018

Nükleer Olaylar için Sayısal Uygulamalar II, Doctorate, 2017 - 2018

TEMEL FİZİK II, Undergraduate, 2017 - 2018

Temel Fizik I, Undergraduate, 2017 - 2018

Advising Theses

Akar Tarım Ü., Polimer ve metal matrisli kompozitlerin gama ışını zırhlama malzemesi olarak etkinliklerinin araştırılması,
Postgraduate, B.YURTTADUR(Student), 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Synergizing electrical, mechanical, and radiation shielding properties of dendritic copper filled epoxy polymer composites**
Mutlu D., KARAGÖZ İ., Sepetcioglu H., AKAR TARIM Ü., GÜRLER O.
RADIATION PHYSICS AND CHEMISTRY, vol.216, 2024 (SCI-Expanded)
- II. **Monte Carlo simulation for the interaction characteristics of gamma-rays with several tissues and water as a tissue substitute**
AKAR TARIM Ü., GÜRLER O., Korkmaz L.
Radiation Effects and Defects in Solids, vol.178, no.7-8, pp.799-807, 2023 (SCI-Expanded)
- III. **A computational modelling of low-energy gamma ray detection efficiency of a cylindrical NaI(Tl) detector**
Ahmadi S., Ashrafi S., Yazdansetad F., Roshanshah N., Tarim Ü., Gurler O.
RADIATION PHYSICS AND CHEMISTRY, 2021 (SCI-Expanded)
- IV. **Screening parameter for elastic scattering of electrons**
YALÇIN S., AKAR TARIM Ü., GÜRLER O., GÜNDÖĞDU Ö., Bradley D. A.
RADIATION EFFECTS AND DEFECTS IN SOLIDS, vol.176, no.9-10, pp.919-939, 2021 (SCI-Expanded)
- V. **Gamma-Ray Attenuation Study for the Soils of Bursa, Turkey, in the Energy Range 59.5-1332.5 keV**
GÜRLER O., TÜMSAVAŞ Z., AKAR TARIM Ü.
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE, vol.44, no.4, pp.1161-1166, 2020
(SCI-Expanded)
- VI. **POTENTIAL USE OF CONCRETES FOR GAMMA-RAY SHIELDING**
GÜRLER O., AKAR TARIM Ü.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.28, pp.10029-10034, 2019 (SCI-Expanded)
- VII. **Evaluation of gamma-ray attenuation properties of bismuth borate glass systems using Monte Carlo method**
AKAR TARIM Ü., Ozmutlu E. N., YALÇIN S., GÜNDÖĞDU Ö., Bradley D. A., GÜRLER O.
RADIATION PHYSICS AND CHEMISTRY, vol.140, pp.403-405, 2017 (SCI-Expanded)
- VIII. **Monte Carlo Calculations for Photon Attenuation Studies on Different Solid Phantom Materials**
Gundogdu O., Tarim Ü., Gurler O.
ACTA PHYSICA POLONICA A, no.3, pp.1032-1035, 2017 (SCI-Expanded)
- IX. **Application of FLUKA code to gamma-ray attenuation, energy deposition and dose calculations**
DEMİR N., Tarim Ü., Gurler O.
INTERNATIONAL JOURNAL OF RADIATION RESEARCH, no.1, pp.123-128, 2017 (SCI-Expanded)
- X. **Determination of Radiation Shielding Properties of Some Polymer and Plastic Materials against Gamma-Rays**
Gurler O., Tarim Ü.
ACTA PHYSICA POLONICA A, no.1, pp.236-238, 2016 (SCI-Expanded)
- XI. **Evaluation of Multiple Backscattering and Saturation Thickness of Gamma Rays**
Tarim Ü.
ACTA PHYSICA POLONICA A, no.1, pp.233-235, 2016 (SCI-Expanded)
- XII. **INDOOR RADON LEVELS IN PRIMARY AND SECONDARY SCHOOLS OF KASTAMONU, TURKEY**

- Yalcin S., Aras G., Tarim Ü., Gurler O.
JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY, no.1, pp.18-22, 2015 (SCI-Expanded)
- XIII. **A possibility for standoff bomb detection**
Tarim Ü., Ozmutlu E. N., Gurler O., Yalcin S.
RADIATION PHYSICS AND CHEMISTRY, pp.170-174, 2015 (SCI-Expanded)
- XIV. **Monte Carlo calculations of the energy deposited in biological samples and shielding materials**
Tarim Ü., Gurler O., Ozmutlu E. N., Yalcin S.
RADIATION EFFECTS AND DEFECTS IN SOLIDS, no.3, pp.232-238, 2014 (SCI-Expanded)
- XV. **Calculation of gamma-ray mass attenuation coefficients of some Egyptian soil samples using Monte Carlo methods**
Medhat M. E., DEMİR N., AKAR TARIM Ü., GÜRLER O.
RADIATION EFFECTS AND DEFECTS IN SOLIDS, vol.169, no.8, pp.706-714, 2014 (SCI-Expanded)
- XVI. **Investigation of mass attenuation coefficients of water, concrete and bakelite at different energies using the FLUKA Monte Carlo code**
DEMİR N., AKAR TARIM Ü., Popovici M., Demirci Z. N., GÜRLER O., AKKURT İ.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.298, no.2, pp.1303-1307, 2013 (SCI-Expanded)
- XVII. **Monte Carlo calculations for gamma-ray mass attenuation coefficients of some soil samples**
Tarim Ü., Gurler O., Ozmutlu E. N., Yalcin S.
Annals of Nuclear Energy, vol.58, pp.198-201, 2013 (SCI-Expanded)
- XVIII. **Monte Carlo modelling of single and multiple Compton scattering profiles in a concrete material**
Tarim Ü., Ozmutlu E. N., Gurler O., Yalcin S., Gundogdu O., Sharaf J. M., Bradley D. A.
RADIATION PHYSICS AND CHEMISTRY, pp.12-17, 2013 (SCI-Expanded)
- XIX. **Monte Carlo analyses of multiple backscattering of gamma rays**
Tarim Ü., Ozmutlu E. N., Gurler O., Yalcin S.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.295, no.2, pp.901-905, 2013 (SCI-Expanded)
- XX. **ESTIMATION OF MEAN (RN)-R-222 CONCENTRATION IN WATER AND IN INDOOR AIR OF KARACABEY, BURSA (TURKEY)**
GÜRLER O., AKAR TARIM Ü., YALÇIN S.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.22, pp.247-251, 2013 (SCI-Expanded)
- XXI. **An investigation on determination of attenuation coefficients for gamma-rays by Monte Carlo method**
Gurler O., Tarim Ü.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, no.1, pp.397-401, 2012 (SCI-Expanded)
- XXII. **The effect of the housing material on the NaI(Tl) detector response function**
Tarim Ü., Ozmutlu E. N., Gurler O., Yalcin S.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, no.1, pp.425-429, 2012 (SCI-Expanded)
- XXIII. **The energy spectrum of 662 keV photons in a water equivalent phantom**
Tarim Ü., Gurler O., Ozmutlu E. N., Yalcin S., Gundogdu O., Sharaf J. M., Bradley D. A.
RADIATION PHYSICS AND CHEMISTRY, no.7, pp.745-748, 2012 (SCI-Expanded)
- XXIV. **Evaluation of radon concentration in well and tap waters in Bursa, Turkey**
Tarim Ü., Gurler O., Akkaya G., Kilic N., Yalcin S., Kaynak G., Gundogdu O.
RADIATION PROTECTION DOSIMETRY, no.2, pp.207-212, 2012 (SCI-Expanded)
- XXV. **MEASUREMENTS OF RADIUM LEVELS IN BOTTLED NATURAL SPRING WATER OF MARMARA REGION (TURKEY)**
AKAR TARIM Ü., GÜRLER O., KAHRAMAN A., Yalcin S., Kaynak G., Gundogdu O.
ROMANIAN JOURNAL OF PHYSICS, vol.57, pp.1204-1210, 2012 (SCI-Expanded)
- XXVI. **Analytical investigation of energy spectrums of beta rays emitted from ^{90}Sr and ^{204}Tl radioisotopes**
Yalcin S., Gurler O., Gundogdu O., Akar Ü.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, no.3, pp.923-926, 2011 (SCI-Expanded)
- XXVII. **Measurements of radon concentration in drinking water samples from Kastamonu (Turkey)**

- Yalcin S., GÜRLER O., AKAR TARIM Ü., Incirci F., Kaynak G., GÜNDÖĞDU Ö.
ISOTOPES IN ENVIRONMENTAL AND HEALTH STUDIES, vol.47, no.4, pp.438-445, 2011 (SCI-Expanded)
- XXVIII. MEASUREMENTS OF RADON LEVELS IN THERMAL WATERS OF BURSA, TURKEY**
- GÜRLER O., AKAR TARIM Ü., KAHRAMAN A., Yalcin S., Kaynak G., Gundogdu O.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.19, pp.3013-3017, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **Assessment of the Usability of a Composite Containing Boron Carbide for Shielding the Gamma Rays**
Akar Tarım Ü.
Sakarya University Journal of Science, vol.27, no.1, pp.159-167, 2023 (Peer-Reviewed Journal)
- II. **A Quick Method to Calculate NaI(Tl) Detector Efficiency Depending on Gamma ray Energy and Source-to-detector Distance**
AKAR TARIM Ü., GÜRLER O., YALÇIN S.
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.14, no.2, pp.195-199, 2018 (Peer-Reviewed Journal)
- III. **Application of Monte Carlo Method for Gamma ray Attenuation Properties of Lead Zinc Borate Glasses**
AKAR TARIM Ü., GÜRLER O.
Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.22, no.6, pp.1848-1852, 2018 (Peer-Reviewed Journal)
- IV. **Source-to-detector Distance Dependence of Efficiency and Energy Resolution of a 3"x3" NaI(Tl) Detector**
AKAR TARIM Ü., GÜRLER O.
Avrupa Bilim ve Teknoloji Dergisi, vol.0, no.13, pp.103-107, 2018 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **INVESTIGATION OF THE EFFICIENCY OF POLYMER AND METAL MATRIX COMPOSITES AS GAMMA RAY SHIELDING MATERIAL**
YURTTADUR PERÇİN B., AKAR TARIM Ü.
INTERNATIONAL CONGRESS OF NEW HORIZONS IN SCIENCES (INCOHIS 2023 SPRING), İstanbul, Turkey, 20 May 2023
- II. **Determination of Gamma-ray Attenuation Properties of Bursa Marbles**
Hijazi O. T., Gürler O., Akar Tarım Ü.
4. INTERNATIONAL SCIENTIFIC RESEARCH AND INNOVATION CONGRESS , İstanbul, Turkey, 24 - 25 December 2022, pp.265-266
- III. **Toprak Ortamında Çoklu Saçılan Gamma Işınlarının Şiddetinin Ortam Boyutlarına Bağlı Değişimi**
AKAR TARIM Ü., GÜRLER O.
4. Uluslararası Bilimsel Araştırmalar Kongresi, Yalova, Turkey, 14 - 17 February 2019
- IV. **NaI(Tl) Dedektörünün Cevap Fonksiyonunun Analitik Olarak İncelenmesi**
AKAR TARIM Ü.
1. Uluslararası Battalgazi Multidisipliner Çalışmalar Kongresi, Malatya, Turkey, 7 - 09 December 2018
- V. **KAYNAK-DETEKTÖR ARASIMESAFENİN NaI(Tl) DETEKTÖRÜNÜN VERİMİNE ETKİSİ**
AKAR TARIM Ü., GÜRLER O., YALÇIN S.
Adım Fizik Günleri VI, 19 - 21 July 2017
- VI. **Monte Carlo Simulations Using Two Different Approaches for Sampling of Emitting Point of gamma radiations to Calculate the Efficiency of Cylindrical NaI(Tl) Detector for Disk Sources**
AKAR TARIM Ü., YALÇIN S., GÜRLER O.
4th International Conference on Computational and Experimental Science and Engineering (ICCESEN 2017), 4 - 08 October 2017

- VII. Monte Carlo calculations for photon attenuation studies on different solid phantom materials / (Bu bildiri metni daha sonra makale olarak yayımlanmıştır.)
GÜNDÖĞDU Ö., AKAR TARIM Ü., GÜRLER O.
3rd International Conference on Computational and Experimental Science and Engineering (ICCESEN2016),
Antalya, Turkey, 19 - 24 October 2016
- VIII. Monte Carlo calculations for photon attenuation studies on different solid phantom materials
GÜNDÖĞDU Ö., AKAR TARIM Ü., GÜRLER O.
3nd International Conference on Computational and Experimental Science and Engineering (ICCESEN 2016), 19 -
24 October 2016
- IX. Determination of radiation shielding properties of some polymer and plastic materials for gamma rays / (Bu bildiri metni daha sonra makale olarak yayımlanmıştır.)
GÜRLER O., AKAR TARIM Ü.
2nd International Conference on Computational and Experimental Science and Engineering, Antalya, Turkey, 14 -
19 October 2015
- X. Determination of radiation shielding properties of some polymer and plastic materials for gamma rays
GÜRLER O., AKAR TARIM Ü.
2nd International Conference on Computational and Experimental Science and Engineering (ICCESEN 2015),
Antalya, Turkey, 14 - 19 October 2015
- XI. Evaluation of multiple backscattering and saturation thickness of gamma rays / (Bu bildiri metni
daha sonra makale olarak yayımlanmıştır.)
AKAR TARIM Ü.
2nd International Conference on Computational and Experimental Science and Engineering, Antalya, Turkey, 14 -
19 October 2015
- XII. Development of a Monte Carlo code for the gamma-ray attenuation studies of bismuth borate glass systems
AKAR TARIM Ü., GÜRLER O., YALÇIN S., ÖZMUTLU E. N.
4th International Advances in Applied Physics and Materials Science Congress and Exhibition, Fethiye, MUĞLA,
Turkey, 24 - 27 April 2014
- XIII. Meaurements of Radon Levels in Bottled Natural Spring Water of Turkey
AKAR TARIM Ü., GÜRLER O., KAHRAMAN A., YALÇIN S., KAYNAK Z. G., GÜNDÖĞDU Ö.
10 th International Balkan Workshop on Applied Physics, 6 - 08 July 2009
- XIV. Measurements of radon levels in bottled natural spring water of Turkey / (Bildiri metni daha sonra
makale olarak yayımlanmıştır.)
AKAR TARIM Ü., GÜRLER O., KAHRAMAN A., YALÇIN S., KAYNAK Z. G., GÜNDÖĞDU Ö.
10th International Balkan Workshop on Applied Physics, Constanta, Romania, 6 - 08 July 2009

Patent

Gürler O., Çavaş T., Akar Tarım Ü., Çinkılıç N., Vatan Ö., Akça Ç., Ayas E., Huriyet H., Gergin B., Arıkan H. S., RADYASYONA KARŞI HAFİF, EKONOMİK ZIRH: ALFA-SEPİYOLİT (LÜLETAŞI), Patent, CHAPTER G Physics, The Invention Registration Number: 2016/01282 , Standard Registration, 2019

Metrics

Publication: 46

Citation (WoS): 332

Citation (Scopus): 528

H-Index (WoS): 10

H-Index (Scopus): 11

Non Academic Experience

Milli Eğitim