

Prof. Dr. Yüksel ÖZDEMİR



Kişisel Bilgiler

Diğer E-posta: yozdemir25@yahoo.com
Web: <https://avesis.atauni.edu.tr/yozdemir>

Uluslararası Araştırmacı ID'leri

ScholarID: UGE_mJEAAAAJ
ORCID: 0000-0003-3684-6254
Yoksis Araştırmacı ID: 12129



Eğitim Bilgileri

Doktora, Atatürk Üniversitesi, Fen Fakültesi, Türkiye 2000 - 2003
Yüksek Lisans, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Türkiye 1996 - 1999
Lisans, Atatürk Üniversitesi, Türkiye 1991 - 1995

Yabancı Diller

İngilizce, B2 Orta Üstü

Yaptığı Tezler

Doktora, Foton uyarımlı L3-alttabakasından M-tabakasına boşluk geçiş ihtimallerinin ve flüoresans x-ışınlarının açısız dağılımının ölçülmesi ve anizotropi parametrelerinin tayini, Atatürk Üniversitesi, Fen Fakültesi, Fizik, 2003
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Araştırma Alanları

Fizik, Atom ve Molekül Fiziği, Temel Bilimler, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof. Dr., Atatürk Üniversitesi, Fen Fakültesi, Fizik, 2013 - Devam Ediyor
Doç. Dr., Atatürk Üniversitesi, Fen Fakültesi, Fizik, 2008 - 2013
Araştırma Görevlisi, Atatürk Üniversitesi, Fen Fakültesi, Fizik, 1999 - 2003

Akademik İdari Deneyim

Anabilim/Bilim Dalı Başkanı, Atatürk Üniversitesi, Fen Fakültesi, Fizik, 2018 - 2023
Dekan, Atatürk Üniversitesi, Fen Fakültesi, 2017 - 2018

Atatürk Üniversitesi, Horasan Meslek Yüksekokulu, 2009 - 2016
Merkez Müdürü, Atatürk Üniversitesi, Fen Fakültesi, Fizik, 2005 - 2008
Merkez Müdür Yardımcısı, Atatürk Üniversitesi, Fen Fakültesi, Fizik, 2003 - 2005

Verdiği Dersler

Fizik I, Lisans, 2023 - 2024

Yönetilen Tezler

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ÖZDEMİR Y., LANTANİTLERDE X-IŞINI BAĞIL ŞİDDETLERİNE SICAKLIĞIN ETKİSİNİN İNCELENMESİ, Doktora, E.CİNAN(Öğrenci), 2018
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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayımlanan Makaleler

- I. **Determination of the effect of temperature on relative L X-ray intensity ratio of gadolinium, dysprosium and erbium**
CİNAN E., ERTUĞRUL M., AYĞÜN B., SAYYED M., KURUCU Y., ÖZDEMİR Y.
RADIATION PHYSICS AND CHEMISTRY, cilt.183, 2021 (SCI-Expanded)
- II. **Measurement of L X-ray production cross sections and relative intensities of some lanthanide compounds depending on the temperature**
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RADIOCHIMICA ACTA, cilt.108, sa.5, ss.415-423, 2020 (SCI-Expanded)
- III. **An experimental study on the investigation of nuclear radiation shielding characteristics in iron-boron alloys**
Levet A., Kavaz E., Özdemir Y.
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- IV. **A device for X-Ray elemental mapping using annular radioisotope source**
Ahmadi N., Kavaz E., Ertuğrul M., Özdemir Y.
X-Ray Spectrometry, cilt.46, ss.486-491, 2017 (SCI-Expanded)
- V. **Evaluation of Mineral Content and Photon Interaction Parameters of Dental Enamel After Phosphoric Acid and Er:YAG Laser Treatment**
ŞİMŞEK h., gürbüz t., BÜYÜK S. K., ÖZDEMİR Y.

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- VI. **Determination of effective atomic numbers, effective electrons numbers, total atomic cross-sections and buildup factor of some compounds for different radiation sources**
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- VII. **Investigation of K X-ray intensity ratios of some 4d transition metals depending on the temperature**
Özdemir Y., Kavaz E., Ahmađı N., Ertuđrul M., Ekinci N.
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- VIII. **Determination of energy absorption and exposure buildup factors by using G-P fitting approximation for radioprotective agents**
KAVAZ E., PERISANOGLU U., EKİNCİ N., ÖZDEMİR Y.
International Journal of Radiation Biology, cilt.92, sa.7, ss.380-387, 2016 (SCI-Expanded)
- IX. **Photon buildup factors of some chemotherapy drugs**
Kavaz E., Ahmadishadbad N., Özdemir Y.
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- X. **Micro-chemical and radiological characterization using gamma-spectrometry and WDXRF spectrometry and annual effective dose of cigarette tobaccos**
Sogot O., Kocaer A. F., Zorer O. S., Özdemir Y., Dogru M.
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- XI. **A study of the energy absorption and exposure buildup factors of some anti-inflammatory drugs**
Ekinci N., Kavaz E., Özdemir Y.
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- XII. **Analysis of some Pb, Th and U compounds in terms of photon interaction, photon energy absorption and fast neutron attenuation**
KURUDİREK M., ÖZDEMİR Y., El-Khayatt A. M.
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- XIII. **L-shell polarization and alignment of heavy elements induced by 59.54keV photons**
ÖZDEMİR Y., DURAK R., KACAL M., KURUDİREK M.
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- XIV. **L-shell polarization and alignment of heavy elements induced by 59.54 keV photons**
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- XV. **Analysis of some Earth, Moon and Mars samples in terms of gamma ray energy absorption buildup factors: Penetration depth, weight fraction of constituent elements and photon energy dependence**
KURUDİREK M., Dogan B., ÖZDEMİR Y., Moreira A. C., Appoloni C. R.
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- XVI. **Energy absorption and exposure buildup factors for some polymers and tissue substitute materials: photon energy, penetration depth and chemical composition dependence**
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- XVII. **Gamma-ray energy absorption and exposure buildup factor studies in some human tissues with endometriosis**
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- XVIII. **A comprehensive study on energy absorption and exposure buildup factors for some essential amino acids, fatty acids and carbohydrates in the energy range 0.015-15 MeV up to 40 mean free path**
KURUDİREK M., ÖZDEMİR Y.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, cilt.269, sa.1, ss.7-19, 2011 (SCI-Expanded)
- XIX. **Comparison of some lead and non-lead based glass systems, standard shielding concretes and**

commercial window glasses in terms of shielding parameters in the energy region of 1 keV-100 GeV

A comparative study

Kurudirek M., Özdemir Y., Şimşek Ö., Durak R.

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- XX. **A study of chemical composition and radiation attenuation properties in clinoptilolite-rich natural zeolite from Turkey**
KURUDİREK M., Ozdemir Y., TÜRKMEN İ., LEVET A.
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- XXI. **Quantitative EDXRF analysis of Ca, K, Mn and Na in normal and pathological adult-human teeth**
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- XXII. **Effective atomic number study of various alloys for total photon interaction in the energy region of 1 keV-100 GeV**
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- XXIII. **Determination of effective atomic numbers in some compounds for photoelectric process at 59.54 keV by using different methods**
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- XXV. **Assessment of trace element concentration distribution in human placenta by wavelength dispersive X-ray fluorescence: Effect of neonate weight and maternal age**
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- XXVI. **A study of photon interaction in some building materials: High-volume admixture of blast furnace slag into Portland cement**
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- XXVII. **Calculation of radiation attenuation coefficients in Portland cements mixed with silica fume, blast furnace slag and natural zeolite**
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- XXVIII. **Angular dependence from L3-subshell to M-shell vacancy transfer probabilities for heavy elements using EDXRF technique**
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- XXIX. **Evaluation of root canal dentin after Nd : YAG laser irradiation and treatment with five different irrigation solutions: A preliminary study**
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- XXX. **Protective effects of amlodipine and lacidipine on ovariectomy-induced bone loss in rats**
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- XXXI. **Differential and total M-shell X-ray production cross-sections of some selected elements between Au and U at 5.96 keV**
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- XXXII. **Comparative quantitative analysis of sodium, magnesium, potassium and calcium in healthy cuttlefish backbone and non-pathological human elbow bone**
YILDIRIM Ö. S., Okumus Z., KIZILKAYA M., ÖZDEMİR Y., DURAK R., OKUR A.
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- XXXIII. **Measurement of angular dependence from L3-subshell to M-shell vacancy transfer probabilities for the elements in the atomic region $71 \leq Z \leq 78$**
ÖZDEMİR Y., DURAK R., Esmer K., ERTUĞRUL M.
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- XXXIV. **Measurement of L-subshell fluorescence yield ratios ($\omega(1)/\omega(2)$, $\omega(1)/\omega(3)$ and $\omega(2)/\omega(3)$) of some elements between cesium and uranium**
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- XXXVIII. **Photon-induced L-subshell Auger yields for some elements in the atomic number range $55 \leq z \leq 92$ using a S(Li) detector**
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- XL. **Determination of concentrations of human bone around titanium and stainless steel with an energy-dispersive x-ray fluorescence technique**
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- XLI. **K-shell X-ray production cross-sections and fluorescence yields in some medium-Z elements**
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- XLII. **Measurement of K alpha to L alpha and K beta to L beta intensity ratios of seven elements in the atomic number range $56 \leq Z \leq 66$ using photoionization at 59.54 keV**
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- XLIV. **Photon-induced M-shell X-ray production cross-sections and fluorescence yields in heavy elements**

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- XLV. **Measurement of K-shell fluorescence cross-sections and yields of 14 elements in the atomic number range $25 \leq Z \leq 47$ using photoionization**
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- XLVI. **Measurement of atomic L shell Coster-Kronig yields (f_{12} , f_{23} and f_{13}) for some elements in the atomic number range $59 \leq Z \leq 90$**
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- XLVII. **Experimental determination of L-subshell fluorescence yields for heavy elements at 59.54 keV**
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- XLIX. **Measurement of atomic L shell fluorescence ($\omega-1\%$, $\omega-2\%$, $\omega-3\%$) and Auger (a_1 , a_2 and a_3) yields for some elements in the atomic number range $59 \leq Z \leq 85$**
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- LII. **Measurement of K- to L- and M-shell radiative vacancy transfer probabilities in lanthanide elements by 59.54 keV photons**
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- LIII. **L α , L β and L γ X-ray production cross-sections and yields of some selected elements between caesium and erbium following ionization by 59.54 keV γ rays**
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Diğer Dergilerde Yayınlanan Makaleler

- I. **Investigation of photon interaction properties of some ni-based superalloys Ni tabanlı bazı süperalaşımın foton etkileşim özelliklerinin incelenmesi**
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- II. **Calculation of photopeak efficiency of SI(LI) detector within the energyrange of 1-80 KeV**

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Kitap & Kitap Bölümleri

I. **BİR DEM HAYAT**

Özdemir Y.

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II. **GİZEMLİ EVREN**

Özdemir Y.

NOBEL AKADEMİK YAYINCILIK, Ankara, 2021

III. **Türkiyenin Enerji Stratejisi**

Özdemir Y.

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IV. **BİLİME YÖN VERENLER**

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V. **Vacancy Transfer Probability, Angular distribution and Anisotropy Parameters**

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VI. **Titreşim ve Dalgalar**

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VII. **Radiation Interaction with Blast Furnace Slag: A Comparative Study from the Point of Radiation Shielding**

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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. **Measurements of Lx-ray production cross-section and ...**

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II. **Neutron Measurements for Ferro Boron Alloys and Experimental Determination of Radiation Properties**

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III. **Analyzing XRF Parameters and Valence Electronic Structure of the Ti, Cr, and Co Metals Depending on Temperature**

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- IV. **An Investigation on Gamma Shielding Features of Commonly Used Cobalt Based Superalloys**
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- V. **Comparison of Radiation Parameters of Stainless Steels 316L, 310, 304, 430 for Different Energies**
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