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Kişisel Bilgiler

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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 uyarımı L3-altabakasından M-tabakasına boşluk geçiş ihtimallerinin ve flüoresans x-ışınlarının açısal 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

ÖZDEMİR Y., Ni, Fe, Co TABANLI SÜPER ALAŞIMLARIN RADYASYON ZIRHLAMA KABİLİYETLERİNİN KARŞILAŞTIRILMASI, Yüksek Lisans, Z.IŞIK(Öğrenci), 2019

ÖZDEMİR Y., Bazı biyoaktif bileşiklerin radyasyonla etkileşimparametrelerinin incelenmesi, Yüksek Lisans, H.İLHAN(Öğrenci), 2019

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ÖZDEMİR Y., X-işini haritalama tekniği ile numunelerin haritalanması, Doktora, N.AHMADİ(Öğrenci), 2016

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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Determination of the effect of temperature on relative L X-ray intensity ratio of gadolinium, dysprosium and erbium**
CİNAN E., ERTUĞRUL M., AYGÜN 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**
CİNAN E., Aygün B., SAYYED M., ÖZDEMİR Y.
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.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.819, 2020 (SCI-Expanded)
- 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.

- PHOTOMEDICINE AND LASER SURGERY, cilt.35, sa.5, ss.270-277, 2017 (SCI-Expanded)
- VI. Determination of effective atomic numbers, effective electrons numbers, total atomic cross-sections and buildup factor of some compounds for different radiation sources
Levet A., Özdemir Y.
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Applied Radiation and Isotopes, cilt.115, ss.147-154, 2016 (SCI-Expanded)
- 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., Ahmadishabdar N., Özdemir Y.
Biomedicine and Pharmacotherapy, cilt.69, ss.34-41, 2015 (SCI-Expanded)
- X. Micro-chemical and radiological characterization using gamma-spectrometry and WDXRF spectrometry and annual effective dose of cigarette tobaccos
Sogut O., Kocaer A. F., Zorer O. S., Özdemir Y., Dogru M.
MICROCHEMICAL JOURNAL, cilt.115, ss.19-26, 2014 (SCI-Expanded)
- 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
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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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Applied Radiation and Isotopes, cilt.69, sa.2, ss.381-388, 2011 (SCI-Expanded)
- 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
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- 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.
RADIATION PHYSICS AND CHEMISTRY, cilt.79, sa.11, ss.1120-1126, 2010 (SCI-Expanded)
- XXI. **Quantitative EDXRF analysis of Ca, K, Mn and Na in normal and pathological adult-human teeth**
ÖZDEMİR Y., BAYINDIR Y. Z., DURNA D., DURAK R.
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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**
KURUDİREK M., Buyukyildiz M., ÖZDEMİR Y.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, cilt.613, sa.2, ss.251-256, 2010 (SCI-Expanded)
- XXIII. **Determination of effective atomic numbers in some compounds for photoelectric process at 59.54 keV by using different methods**
KURUDİREK M., ÖZDEMİR Y.
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- XXIV. **A study of total mass attenuation coefficients, effective atomic numbers and electron densities for various organic and inorganic compounds at 59.54 keV**
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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**
ÖZDEMİR Y., BÖREKÇİ B., LEVET A., KURUDİREK M.
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- XXVI. **A study of photon interaction in some building materials: High-volume admixture of blast furnace slag into Portland cement**
KURUDİREK M., Turkmen I., Ozdemir Y.
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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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- MATERIALS AND ATOMS, cilt.256, sa.2, ss.581-585, 2007 (SCI-Expanded)
- XXXII. Comparative quantitative analysis of sodium, magnesium, potassium and calcium in healthy cuttlefish backbone and non-pathological human elbow bone
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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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- XXXV. Qualitative and quantitative analysis of sciatic nerves in adult rats by repeated intraperitoneal administration of paclitaxel (taxol) using a radioisotope EDXRF technique
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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 Si(Li) detector
ÖZDEMİR Y.
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- XL. Determination of concentrations of human bone around titanium and stainless steel with an energy-dispersive x-ray fluorescence technique
ÖZDEMİR Y., Okur A., Tath L., DURAK R.
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- XLI. K-shell X-ray production cross-sections and fluorescence yields in some medium-Z elements
ÖZDEMİR Y., DURAK R., ÖZ E.
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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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- 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 (f₁₂, f₂₃ and f₁₃) for some elements in the atomic number range $59 \leq Z \leq 90$**
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- XLVIII. X-ray fluorescence escape peaks in Ge(Li) detectors**
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- XLIX. Measurement of atomic L shell fluorescence ($\omega-1$$, $\omega-2$$, $\omega-3$$) and Auger (a₁, a₂ and a₃) yields for some elements in the atomic number range $59 \leq Z \leq 85$**
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- L. Measurement of K- to L- and M-shell radiative vacancy transfer probabilities in lanthanide elements by 59.54 keV photons**
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- LI. Measurement of L₁, L alpha, L beta and L gamma X-ray production cross sections and average L shell fluorescence yields for elements in the atomic range $70 \leq Z \leq 92$ at 59.54 keV**
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- LIII. L₁, 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 süperalaşımların foton etkileşim özelliklerinin incelenmesi**
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- II. **Calculation of photopeak efficiency of Si(Li) detector within the energyrange of 1-80 KeV**

- KAVAZ E., EKİNCİ N., CİNAN E., ÖZDEMİR Y.
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- III. Benzocyclobutene BCB 4022 35 Single Mode Rib Waveguides**
 ORHAN E., EKİNCİ N., ÖZDEMİR Y., ERTUĞRUL M., ŞAHİN Y., ERDOĞAN H.
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Kitap & Kitap Bölümleri

- I. BİR DEM HAYAT**
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- II. GİZEMLİ EVREN**
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- III. Türkiyenin Enerji Stratejisi**
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- IV. BİLİMME 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 ...**
 CİNAN E., EKİNCİ N., ŞAKAR E., KURUCU Y., ÖZDEMİR Y.
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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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- VI. Co Tabanlı Süperalaşımların Radyasyon Zırhlama Özelliklerinin İncelenmesi
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