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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Atatürk Üniversitesi, Fen Fakültesi, Fizik, Türkiye 1991 - 1994

Yabancı Diller

İngilizce, B1 Orta

Yaptığı Tezler

Doktora, RFAMİD NÖROPEPTİDLERİNİN TEORİK KONFORMASYON ANALİZİ, Atatürk Üniversitesi, Fen Fakültesi, Fizik/Atom Ve Molekül, 2005

Araştırma Alanları

Fizik, Atom ve Molekül Fiziği, Temel Bilimler

Akademik Unvanlar / Görevler

Prof. Dr., Atatürk Üniversitesi, Fen Fakültesi, Fizik, 1989 - Devam Ediyor

Verdiği Dersler

Fizik I, Lisans, 2023 - 2024

Fizik II, Lisans, 2022 - 2023

Mekanik Laboratuvarı, Lisans, 2023 - 2024

Molekül Fiziği, Lisans, 2022 - 2023

Atom Fiziği, Lisans, 2023 - 2024

FizikII, Lisans, 2021 - 2022

Fizik II (Elektrik), Lisans, 2020 - 2021

Fizik I (Mekanik), Lisans, 2021 - 2022

Fizik I(mekanik), Lisans, 2021 - 2022

Molekül Fiziği, Lisans, 2020 - 2021

Atom Fiziği, Lisans, 2021 - 2022
Fizik I (mekanik), Lisans, 2020 - 2021
Fizik I, Lisans, 2020 - 2021
İleri Atom ve Molekül Fiziği, Doktora, 2012 - 2013
Atom Fiziği Laboratuvarı, Lisans, 2009 - 2010
Çekirdek Fiziği Laboratuvarı, Lisans, 2010 - 2011
Fizik I (Mekanik), Lisans, 2009 - 2010
Fizik I (Mekanik), Lisans, 2009 - 2010
Optik, Lisans, 2009 - 2010

Yönetilen Tezler

Demir L., Bor katkılı metal komplekslerinin üretimi, karakterizasyonu, yapısal özelliklerinin yük transferi ve delokalizasyon fenomenleri kullanılarak nodejs platformunda geliştirilecek yapay zeka ile incelenmesi, Doktora, Ö.FIRAT(Öğrenci), 2021
Demir L., 3d-4d geçiş metali alaşımlarında compton saçılmasına kimyasal etkinin araştırılması ve koherent / compton saçılma diferansiyel tesir kesiti oranlarının saçılma açısına bağlı olarak hesaplanması, Doktora, E.URTEKİN(Öğrenci), 2021
Demir L., Geçiş metalli nano ferrit alaşımlar için K X-ışını şiddet oranı üzerine kimyasal etkilerin incelenmesi ve bu alaşımların radyasyon soğurma kabiliyetlerinin değerlendirilmesi, Doktora, U.PERİŞANOĞLU(Öğrenci), 2018
Demir L., Sinterleme metodu ile elde edilen kimyasal özellikleri benzer bazı 3D ve 4D geçiş metal alaşımlarının dış manyetik alanda k tabakası X-ışını şiddet oranı ve valens elektron yoğunluğunun belirlenmesi, Doktora, M.UĞURLU(Öğrenci), 2018
Demir L., Tavlama sıcaklığı, basınç ve dış manyetik alanın şekil hafızalı nanoalaşımların x-ışını şiddet oranları ve valens elektron yapıları üzerine etkilerinin incelenmesi, Doktora, B.ALİM(Öğrenci), 2017
Demir L., FexNi1-x alaşımlarında etkin atom numaralarının ve elektron yoğunluklarının deneysel, yarıdeneysel ve teorik metotla hesaplanması, Yüksek Lisans, E.URTEKİN(Öğrenci), 2014
Demir L., Dış manyetik alanda bazı geçiş metal alaşımlarının K tabakası X-ışını şiddet oranlarının belirlenmesi ve bu alaşımlar için etkin atom numaralarının tayini, Yüksek Lisans, U.PERİŞANOĞLU(Öğrenci), 2014
Demir L., Bazı geçiş metal alaşımlarında farklı Co konsantrasyonuna göre valens elektron yoğunluğunun değişiminin araştırılması, Yüksek Lisans, M.UĞURLU(Öğrenci), 2013
Demir L., Dış manyetik alanda geçiş metal alaşımlarının k tabakası x-ışını şiddet oranları ve valens elektron yapılarının belirlenmesi, Yüksek Lisans, B.ALİM(Öğrenci), 2012
Demir L., Geçiş metallerinin valens elektron yapılarının x-ışını şiddet oranları vasıtasıyla belirlenmesi, x-ışını şiddet oranlarının tavlama sıcaklığına bağlı davranışlarının incelenmesi, alaşımlar için etkin atom numaraları ve elektron yoğunluklarının tayini, Doktora, İ.HAN(Öğrenci), 2009
Demir L., Atom Numarası 78Z92 Aralığındaki Bazı elementlerin Ll, L alfa, Lbeta , Lgamma X-ışını ve Compton Saçılma Diferansiyel Tesir Kesitlerinin Ölçümü , Yüksek Lisans, İ.HAN(Öğrenci), 2005
Demir L., M ve L alt tabakaları fotoelektrik tesir kesitleri ve bazı kristallere ait compton saçılması diferansiyel tesir kesitlerinin ölçülmesi, Doktora, M.ŞAHİN(Öğrenci), 2003
Demir L., Bazı Elementlerin M Tabakası X-ışınlarının Üretim Tesir Kesiti ve Açısal Dağılımlarının Enerji Ayrımlı X-ışını Spektrometresi ile Ölçülmesi , Yüksek Lisans, M.ŞAHİN(Öğrenci), 1998

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **An experimental study on chemical shifts and X-ray intensity ratios**
Uğurlu M., AKKUŞ T., Akbulut O., DEMİR L., YILMAZ D.
Applied Radiation and Isotopes, cilt.198, 2023 (SCI-Expanded)
- II. **Investigation of coherent/Compton scattering differential cross section ratios in Cu alloys as**

depending on chemical environment and scattering angle

Urtekin E., Kavaz E., Perişanoğlu U., Demir L.

APPLIED RADIATION AND ISOTOPES, cilt.1, sa.1, ss.1-12, 2022 (SCI-Expanded)

- III. **Precipitation-hardening stainless steels: Potential use radiation shielding materials**
Alim B., ÖZPOLAT Ö. F., ŞAKAR E., Han I., Arslan I., Singh V. P., DEMİR L.
RADIATION PHYSICS AND CHEMISTRY, cilt.194, 2022 (SCI-Expanded)
- IV. **Determination of L X-ray fluorescence cross-sections in the atomic range of elements $57 \leq Z \leq 69$ in an external magnetic field**
Ugurulu M., AKKUŞ T., DEMİR L.
JOURNAL OF MOLECULAR STRUCTURE, cilt.1244, 2021 (SCI-Expanded)
- V. **The coherent to Compton scattering differential cross section ratios of some fifth period elements in the external magnetic field**
Ugurulu M., Akkus T., Demir L.
Indian Journal of Physics, cilt.94, sa.11, ss.1699-1703, 2020 (SCI-Expanded)
- VI. **Relative K X-ray intensity ratios of the first and second transition elements in the magnetic field**
Ugurulu M., DEMİR L.
JOURNAL OF MOLECULAR STRUCTURE, cilt.1203, 2020 (SCI-Expanded)
- VII. **K X-ray fluorescence parameters of some fourth period elements in a magnetic field**
Ugurulu M., DEMİR L.
SPECTROSCOPY LETTERS, cilt.53, sa.3, ss.163-171, 2020 (SCI-Expanded)
- VIII. **Investigating photon interaction characteristics of Fe_xNi_{1-x} alloys**
Urtekin E., Perişanoğlu U., Demir L., Ozturk A. E.
Materials Chemistry and Physics, cilt.242, 2020 (SCI-Expanded)
- IX. **The magnetic field effect of K X-ray fluorescence parameters of elements in the range $39 \leq Z \leq 48$**
Ugurulu M., AKKUŞ T., DEMİR L.
CANADIAN JOURNAL OF PHYSICS, cilt.98, sa.2, ss.217-221, 2020 (SCI-Expanded)
- X. **Examining alloying effect on K X ray intensity ratios and chemical shifts of the Zn, Mn and mixed spinel ferrites**
Perişanoğlu U., Kavaz E., Urtekin E., Demir L.
Applied Radiation and Isotopes, cilt.156, 2020 (SCI-Expanded)
- XI. **The effect of external magnetic field on the coherent to Compton scattering differential cross section ratios of elements in the range $20 \leq Z \leq 32$**
DEMİR L., Ugurulu M.
CANADIAN JOURNAL OF PHYSICS, cilt.98, sa.1, ss.107-110, 2020 (SCI-Expanded)
- XII. **Experimental investigation of radiation shielding performances of some important AISI-coded stainless steels: Part I**
ALIM B., ŞAKAR E., Baltakesmez A., HAN İ., Sayyed M., DEMİR L.
RADIATION PHYSICS AND CHEMISTRY, cilt.166, 2020 (SCI-Expanded)
- XIII. **The relationship between the external magnetic field and K X-ray intensity ratios of immiscible Mo_xAg_{1-x} alloys**
UĞURLU M., Alim B., DEMİR L.
RADIATION PHYSICS AND CHEMISTRY, cilt.165, 2019 (SCI-Expanded)
- XIV. **Variation of coherent to Compton scattering differential cross-section ratios of some lanthanides with the external magnetic field at 59.54 keV**
AKKUŞ T., UĞURLU M., DEMİR L.
RESULTS IN PHYSICS, cilt.13, 2019 (SCI-Expanded)
- XV. **Investigating XRF parameters and valence electronic structure of the Co, Ni, and Cu spinel ferrites**
DEMİR L., PERİŞANOĞLU U., ŞAHİN M.
CERAMICS INTERNATIONAL, cilt.45, sa.6, ss.7748-7753, 2019 (SCI-Expanded)
- XVI. **Investigation of alloying effects on XRF parameters of 3d transition metals in Permendur49, Kovar**

and Ti50Co50 alloys

Alim B., Ugurlu M., Han I., DEMİR L.

JOURNAL OF RADIATION RESEARCH AND APPLIED SCIENCES, cilt.11, sa.2, ss.144-149, 2018 (SCI-Expanded)

- XVII. **Alloying effect on K shell X-ray fluorescence cross-sections and yields in Ti-Ni based shape memory alloys**
Alim B., Han I., DEMİR L.
JOURNAL OF RADIATION RESEARCH AND APPLIED SCIENCES, cilt.11, sa.2, ss.150-156, 2018 (SCI-Expanded)
- XVIII. **Delocalization and charge transfer studies of PERMENDUR49, KOVAR and Ti50Co50 alloys from relative K X-ray intensity ratios**
Ugurlu M., Alim B., Han I., DEMİR L.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.695, ss.2619-2627, 2017 (SCI-Expanded)
- XIX. **Effect of external magnetic field on the K beta/K alpha X-ray intensity ratios of Ti_xNi_{1-x} alloys excited by 59.54 and 22.69 keV photons**
Perisanoglu U., Alim B., Ugurlu M., DEMİR L.
APPLIED RADIATION AND ISOTOPES, cilt.115, ss.183-189, 2016 (SCI-Expanded)
- XX. **Effect of external magnetic field on valence-electron structures of Fe and Ni in Invar, Permalloy and the other Fe-Ni alloys by using K beta-to-K alpha X-ray intensity ratios**
Alim B., Han I., DEMİR L.
APPLIED RADIATION AND ISOTOPES, cilt.112, ss.5-12, 2016 (SCI-Expanded)
- XXI. **A study of K shell X-ray intensity ratios of Ni_xCr_{1-x} alloys in external magnetic field and determination of effective atomic numbers of these alloys**
Perisanoglu U., DEMİR L.
RADIATION PHYSICS AND CHEMISTRY, cilt.110, ss.119-125, 2015 (SCI-Expanded)
- XXII. **Determination of effective atomic numbers for 3d transition metal alloys with a new semi-empirical approach**
HAN İ., AYGÜN M., DEMİR L., ŞAHİN Y.
ANNALS OF NUCLEAR ENERGY, cilt.39, sa.1, ss.56-61, 2012 (SCI-Expanded)
- XXIII. **Angular Distribution of Fluorescent L X-Rays and Compton-Scattering Photons**
HAN İ., DEMİR L.
SPECTROSCOPY LETTERS, cilt.44, sa.2, ss.95-102, 2011 (SCI-Expanded)
- XXIV. **A study on the mean free path and half value layer at various alloys for different photon energies**
HAN İ., AYGÜN M., DEMİR L., Narmanlı E.
JOURNAL OF X-RAY SCIENCE AND TECHNOLOGY, cilt.19, sa.4, ss.501-508, 2011 (SCI-Expanded)
- XXV. **Angular dependence of L-3-subshell X-ray emission following photoionisation**
HAN İ., DEMİR L.
JOURNAL OF X-RAY SCIENCE AND TECHNOLOGY, cilt.19, sa.1, ss.13-21, 2011 (SCI-Expanded)
- XXVI. **Alloying effect on K to L shell vacancy transfer probabilities in 3d transition metals**
HAN İ., DEMİR L.
RADIATION PHYSICS AND CHEMISTRY, cilt.79, sa.12, ss.1174-1179, 2010 (SCI-Expanded)
- XXVII. **Relative K x-ray intensity studies on valence-electron structure of Ti and Co in Ti_xCo_{1-x} alloys**
HAN İ., DEMİR L.
PHYSICAL REVIEW A, cilt.82, sa.4, 2010 (SCI-Expanded)
- XXVIII. **Charge transfer and delocalization studies from K beta-to-K alpha intensity ratios in Co_xCu_{1-x} alloys**
HAN İ., DEMİR L.
ANNALS OF NUCLEAR ENERGY, cilt.37, sa.6, ss.822-826, 2010 (SCI-Expanded)
- XXIX. **Measurement of L alpha, L beta and Total L X-ray fluorescence cross-sections for some elements with $40 \leq Z \leq 53$**
HAN İ., PORİKLİ S., ŞAHİN M., DEMİR L.
RADIATION PHYSICS AND CHEMISTRY, cilt.79, sa.4, ss.393-396, 2010 (SCI-Expanded)
- XXX. **Studies on effective atomic numbers, electron densities and mass attenuation coefficients in Au alloys**

- HAN İ., DEMİR L.
JOURNAL OF X-RAY SCIENCE AND TECHNOLOGY, cilt.18, sa.1, ss.39-46, 2010 (SCI-Expanded)
- XXXI. **Valence-electron configuration of Fe, Cr, and Ni in binary and ternary alloys from K beta-to-K alpha x-ray intensity ratios**
HAN İ., DEMİR L.
Physical Review A, cilt.68, ss.1035-1039, 2010 (SCI-Expanded)
- XXXII. **Effect of annealing treatment on K to K intensity ratios of 3d transition metal alloys**
HAN İ., DEMİR L.
Physical Review A, cilt.81, ss.1-5, 2010 (SCI-Expanded)
- XXXIII. **Studies on effective atomic numbers, electron densities from mass attenuation coefficients in Ti_xCo_{1-x} and $CoxCu_{1-x}$ alloys**
Han I., Demir L.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, cilt.267, ss.3505-3510, 2009 (SCI-Expanded)
- XXXIV. **Determination of mass attenuation coefficients, effective atomic and electron numbers for some natural minerals**
HAN İ., DEMİR L., ŞAHİN M.
RADIATION PHYSICS AND CHEMISTRY, cilt.78, sa.9, ss.760-764, 2009 (SCI-Expanded)
- XXXV. **Mass attenuation coefficients, effective atomic numbers and electron densities of undoped and differently doped GaAs and InP crystals**
DEMİR L., HAN İ.
ANNALS OF NUCLEAR ENERGY, cilt.36, sa.7, ss.869-873, 2009 (SCI-Expanded)
- XXXVI. **The polarization of X-rays and magnetic photoionization cross-sections for L-3 sub-shell**
HAN İ., ŞAHİN M., DEMİR L.
APPLIED RADIATION AND ISOTOPES, cilt.67, sa.6, ss.1027-1032, 2009 (SCI-Expanded)
- XXXVII. **Mass attenuation coefficients, effective atomic and electron numbers of Ti and Ni alloys**
Han I., Demir L.
RADIATION MEASUREMENTS, cilt.44, sa.3, ss.289-294, 2009 (SCI-Expanded)
- XXXVIII. **Determination of mass attenuation coefficients, effective atomic and electron numbers for Cr, Fe and Ni alloys at different energies**
HAN İ., DEMİR L.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, cilt.267, sa.1, ss.3-8, 2009 (SCI-Expanded)
- XXXIX. **Nondestructive analysis of the gold quarter liras**
Çakır C., Gürol A., Demir L., Şahin Y.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, cilt.279, sa.1, ss.345-348, 2009 (SCI-Expanded)
- XL. **Angular variations of K and L X-ray fluorescence cross sections for some lanthanides**
HAN İ., ŞAHİN M., DEMİR L.
CANADIAN JOURNAL OF PHYSICS, cilt.86, sa.2, ss.361-367, 2008 (SCI-Expanded)
- XLI. **Measurement of L X-ray fluorescence cross sections and relative intensities for some elements in the atomic range $78 \leq Z \leq 92$**
DEMİR L., HAN İ., ŞAHİN M. H.
JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA, cilt.162, sa.1, ss.44-48, 2008 (SCI-Expanded)
- XLII. **Measurements of L X-ray production cross sections, L subshell fluorescence yields and K to L shell vacancy transfer probabilities**
HAN İ., DEMİR L., AĞBABA M.
RADIATION PHYSICS AND CHEMISTRY, cilt.76, sa.10, ss.1551-1559, 2007 (SCI-Expanded)
- XLIII. **Measurement of K X-ray fluorescence cross-sections, fluorescence yields and intensity ratios for some elements in the atomic range $22 \leq Z \leq 68$**
HAN İ., ŞAHİN M., DEMİR L., ŞAHİN Y.

- APPLIED RADIATION AND ISOTOPES, cilt.65, sa.6, ss.669-675, 2007 (SCI-Expanded)
- XLIV. **F-4 Effect of X-ray Tube Power On Intensities of $K\alpha$ X-Rays of Trace Elements from Samples Obtained by Using Different Sample Preparation Methods in WDXRF Spectrometer**
DEMİR F., HAN İ., budak G., DEMİR L., GÜROL A., KARABULUT A.
Powder Diffraction, cilt.22, ss.187, 2007 (SCI-Expanded)
- XLV. **F-10 Determination of K to L Vacancy Transfer Probabilities**
HAN İ., DEMİR F., DEMİR L., budak G., ŞAHİN Y.
Powder Diffraction, cilt.22, ss.183, 2007 (SCI-Expanded)
- XLVI. **Measurement of K X-ray fluorescence cross-sections and yields for 5.96 keV photons**
ŞAHİN M., Demir L., Budak G.
APPLIED RADIATION AND ISOTOPES, cilt.63, sa.1, ss.141-145, 2005 (SCI-Expanded)
- XLVII. **Measurement of $L\alpha$, $L\beta$ and $L\gamma$ X-ray fluorescence cross-sections in Hg, Tl, Pb and Bi for the exciting photons of 16.90-59.54keV energy**
BAŞTUĞ A., YALÇIN P., DEMİR L., Şahin Y.
Journal of Quantitative Spectroscopy and Radiative Transfer, cilt.84, sa.3, ss.271-279, 2004 (SCI-Expanded)
- XLVIII. **Measurement of angular dependencies of M X-ray differential cross sections and production cross sections using 5.96 keV photons**
ŞAHİN M., Demir L., Kurucu Y.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, cilt.261, sa.2, ss.415-419, 2004 (SCI-Expanded)
- XLIX. **Angular dependence of $L\alpha$, $L\beta$ and $L\gamma$ X-ray differential and fluorescence cross-sections for Er, Ta, W, Au, Hg and Tl**
DEMİR L., ŞAHİN M. H., KURUCU Y., KARABULUT A., ŞAHİN Y.
Radiation Physics and Chemistry, cilt.67, sa.5, ss.605-612, 2003 (SCI-Expanded)
- L. **Angular dependence of L X-ray differential cross-section for In, Sn, Sb, and Te at 5.96 keV**
Demir L., Sahin M., Sahin Y.
JOURNAL OF TRACE AND MICROPROBE TECHNIQUES, cilt.21, sa.4, ss.593-599, 2003 (SCI-Expanded)
- LI. **Conformational analysis of Pol-RFamide II (Glu(1)-Trp(2)-Leu(3)-Lys(4)-Gly(5)-Arg(6)-Phe(7)-NH₂) heptapeptide**
Demir L., Godjaev N.
TURKISH JOURNAL OF CHEMISTRY, cilt.26, sa.6, ss.825-831, 2002 (SCI-Expanded)
- LII. **Calculation of multi-center integrals for the region of moderate and weak overlap**
KARABULUT A., budak G., DEMİR L., NABİYEV N., ŞAHİN Y.
TURKISH JOURNAL OF CHEMISTRY, cilt.25, sa.4, ss.405-418, 2001 (SCI-Expanded)
- LIII. **Measurement of angular dependence of photon-induced differential cross-sections of M X-rays from Pt, Au and Hg at 5.96 keV**
Demir L., Sahin M., Sogut O., Sahin Y.
RADIATION PHYSICS AND CHEMISTRY, cilt.59, sa.4, ss.355-359, 2000 (SCI-Expanded)
- LIV. **L-subshell fluorescence cross sections and L-subshell fluorescence yields in elements $68 \leq Z \leq 92$ by 59.5 keV photons**
ŞAHİN M., DEMİR L., SÖĞÜT Ö., Ertugrul M., İÇELLİ O.
JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS, cilt.33, sa.1, ss.93-98, 2000 (SCI-Expanded)
- LV. **Measurement of K alpha and K beta fluorescence cross sections for elements in the range $44 \leq Z \leq 68$ at 59.5 keV**
Budak G., Karabulut A., Demir L., Sahin Y.
PHYSICAL REVIEW A, cilt.60, sa.3, ss.2015-2017, 1999 (SCI-Expanded)
- LVI. **K alpha and K beta X-ray fluorescence cross-sections in the atomic region $26 \leq Z \leq 42$ excited by 59.5 keV photons**
Karabulut A., Budak G., Demir L., Sahin Y.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, cilt.155, sa.4, ss.369-372, 1999 (SCI-Expanded)
- LVII. **Incoherent scattering functions of 59.5 keV gamma rays by Ti, Ni, Zr, In, Au and Pb**

- Kurucu Y., Demir L., Sahin Y.
PHYSICA SCRIPTA, cilt.59, sa.2, ss.118-121, 1999 (SCI-Expanded)
- LVIII. **Conformational analysis of linear peptide (Glu(1)-Leu(2)-Leu(3)-Gly(4)-Gly(5)-Arg(6)-Phe(7)NH(2))**
Demir L., Karabulut A., Budak G., Sahin Y., Sefteroglu N.
TURKISH JOURNAL OF CHEMISTRY, cilt.23, sa.3, ss.257-262, 1999 (SCI-Expanded)
- LIX. **Experimental studies on the coherent scattering of 59.5 keV gamma-rays by Fe, Zn and Nb**
Erzeneoglu S. Z., Demir L., Sahin Y.
PHYSICA SCRIPTA, cilt.56, sa.1, ss.89-91, 1997 (SCI-Expanded)
- LX. **Conformational analysis of the sea anemone and sea pansies neuropeptide Antho-RFamide (Glu(1)-Gly(2)-Arg(3)-Phe(4)-NH₂) by molecular-mechanics calculations**
DEMİR L., Sefteroğlu N., budak G., KARABULUT A., ŞAHİN Y.
NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA D-CONDENSED MATTER ATOMIC MOLECULAR AND CHEMICAL PHYSICS FLUIDS PLASMAS BIOPHYSICS, cilt.19, sa.6, ss.827-833, 1997 (SCI-Expanded)
- LXI. **Monte Carlo calculations of XRF intensities in annular arrangements of radioactive source, sample, cylindrical collimator and detector**
Budak C., Karabulut A., Demir L., Sahin Y.
APPLIED SPECTROSCOPY REVIEWS, cilt.31, sa.3, ss.321-332, 1996 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Studies on mass attenuation coefficient, mass energy absorption coefficient, and kerma for Fe alloys at photon energies of 17.44 to 51.70 keV**
YILMAZ D., Sahin Y., DEMİR L.
TURKISH JOURNAL OF PHYSICS, cilt.39, sa.1, ss.81-90, 2015 (ESCI)
- II. **X Ray Intensity Ratios for Elements from 22 Z 40**
KÜÇÜKÖNDER A., ŞAHİN Y., DEMİR L., BÜYÜKKASAP E.
Turkish Journal of Physics, cilt.18, ss.1068-1072, 2014 (Scopus)
- III. **X-ray Fluorescence in some medium-Z elements excited by 59.5 keV photons**
Demir L.
Fizika, cilt.16, sa.2, ss.628-632, 2010 (Hakemli Dergi)
- IV. **Kacal, The Change of Compton Scattering Depending on Tendency of crystals**
Demir L.
Balkan Physics Letters , cilt.18, sa.1, ss.1-6, 2010 (Hakemli Dergi)
- V. **X ray Fluorescence in some medium Z elements excited by 59 5 keV photons Volume XVI Issue2 2010 Pages 628 632**
HAN İ., DEMİR L.
Fizika, cilt.16, ss.628-632, 2010 (Hakemli Dergi)
- VI. **Measurement of M XRF cross sections using photoionization**
Demir L.
Balkan Physics Letters , cilt.15, sa.1, ss.1-8, 2009 (Hakemli Dergi)
- VII. **Computation of Overlap Kinetic and Nuclear Attraction Integrals by a Novel Method**
KARABULUT A., BUDAK G., DEMİR L., NS N., ŞAHİN Y.
Turkish Journal of PHYSICS, cilt.25, sa.3, ss.237-247, 2001 (Scopus)
- VIII. **X-Ray Intensity Ratios for Elements from 20- Z-40.**
Küçükönder A., Şahin Y., Demir L.
Turkish Journal of Physics , cilt.18, sa.1, ss.1068-1072, 1994 (Scopus)

Kitap & Kitap Bölümleri

I. Maxwell Denklemleri ve Elektromanyetik Dalgalar

Demir L.

Mühendisler ve Fen Bilimciler için Fizik (Elektrik ve Manyetizma), Yusuf ŞAHİN Muhammet YILDIRIM, Editör, Geçit Matbaacılık ve Yayıncılık San. Tic., Kayseri, ss.339-373, 2020

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **INVESTIGATION OF THE USABILITIES AS NUCLEAR SHIELDING MATERIAL OF ALUCHROM AND CHROMALOY RESISTANCE ALLOYS**
DEMİR L., KURUCU Y., ALIM B.
II. INTERNATIONAL TURKISH WORLD ENGINEERING AND SCIENCE CONGRESS (ITWESC 2019), Antalya, Türkiye, 7 - 10 Kasım 2019, cilt.1, ss.95-107
- II. **ALUCHROM VE CHROMALOY DİRENÇ ALAŞIMLARININ NÜKLEER ZIRH MALZEMESİ OLARAK KULLANILABİLİRLİKLERİNİN ARAŞTIRILMASI**
DEMİR L., KURUCU Y., ALIM B.
II. Uluslararası Türk Dünyası Mühendislik ve Fen Bilimleri Kongresi, 7 - 10 Kasım 2019
- III. **Investigation of the Effect of Molybdenum Oxide on Oxychloride Glasses by Energy-Based Effective Electron Density, Effective and Equivalent Atomic Numbers and Radiation Shielding Parameters**
ÖZPOLAT Ö. F., ŞAKAR E., ALIM B., DEMİR L.
ICANAS, Türkiye, 19 - 22 Haziran 2019
- IV. **Determination of Gamma Photon Protection Capability of Ni77Fe14Cu5Mo4 : A Magnetic Shielding Alloy**
ALIM B., ŞAKAR E., ÖZPOLAT Ö. F., DEMİR L.
4th INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL APPLIED SCIENCE (ICANAS 2019), 19 - 22 Haziran 2019
- V. **Analysis of Eu-152 X-Ray Fluorescence Transition Spectrum Radioactive Source with Artificial Intelligence Algorithm on NodeJS Platform**
ÖZPOLAT Ö. F., ALIM B., ŞAKAR E., YAVUZ U., DEMİR L.
4th INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL APPLIED SCIENCE (ICANAS 2019), 19 - 22 Haziran 2019
- VI. **DETERMINATION OF EFFECTS OF METAL CONCENTRATION AND INCIDENT ENERGY ON PHOTON ATTENUATION PARAMETERS OF 157PH AND 17-7PH STAINLESS STEELS**
ALIM B., UĞURLU M., DEMİR L.
1st International Turkish World Engineering and Science Congress in Antalya, December 7-10, 2017, Turkey, 7 - 10 Aralık 2017, ss.1016-1025
- VII. **Magnetic Field Effect on Coherent to Incoherent Scattering Differential Cross-Section Ratios of Micro-structure 3d Ferromagnetic Transition Elements at 59.54 keV**
ALIM B., UĞURLU M., KURUCU Y., DEMİR L.
Turkish Physical Society 33rd International Physics Congress (TPS33), Bodrum/Muğla, Muğla, Türkiye, 6 - 10 Eylül 2017
- VIII. **The effect of External Magnetic Field on Incoherent Differential Scattering Cross-Sections for elements with $20 \leq Z \leq 68$ at 59,54 keV**
ALIM B., UĞURLU M., KURUCU Y., DEMİR L.
Turkish Physical Society 33rd International Physics Congress (TPS33), Bodrum/Muğla, Muğla, Türkiye, 6 - 10 Eylül 2017
- IX. **Determination of Photon Absorption Parameters of Ti-Ni Based Shape Memory Alloys at 59.54 keV**
ALIM B., UĞURLU M., KURUCU Y., DEMİR L.
Turkish Physical Society 33rd International Physics Congress (TPS33), Bodrum/Muğla, Muğla, Türkiye, 6 - 10 Eylül 2017

2017

- X. **Magnetic Field Effect on K-shell X-ray Intensity Ratios of Soft Magnetic Fe-Ni alloys**
ALIM B., UĞURLU M., KURUCU Y., DEMİR L.
Turkish Physical Society 33rd International Physics Congress (TPS33), Bodrum/Muğla, Muğla, Türkiye, 6 - 10 Eylül 2017
- XI. **The effect of external magnetic field on incoherent differential scattering cross-sections for elements with $20 \leq Z \leq 68$ at 59,54 keV photon energy.**
ALIM B., KURUCU Y., DEMİR L.
Turkish Physical Society 33rd International Physics Congress (TPS33), Türkiye, 6 - 10 Eylül 2017
- XII. **The Effect of External Magnetic Field on Incoherent differential Scattering Cross-Sections for Elements with $20 \leq Z \leq 68$ at 59,54 keV Photon Energy**
ALIM B., UĞURLU M., KURUCU Y., DEMİR L.
Turkish Physical Society 33rd International Physics Congress (TPS 33), 6 - 10 Eylül 2017
- XIII. **The effect of external magnetic field on incoherent scattering cross-sections ..**
ALIM B., KURUCU Y., DEMİR L.
TPS 33, 6 - 10 Eylül 2017
- XIV. **Determination of K shell XRF Parameters and K to L shell Vacancy Transfer Probabilities of Ferromagnetic 3d Transition Metals**
Alim B., UĞURLU M., Han I., DEMİR L.
International Conference on Advances in Natural and Applied Sciences (ICANAS), Antalya, Türkiye, 18 - 21 Nisan 2017, cilt.1833
- XV. **Magnetic Field on Valence-Electron Configuration of Permalloy from Relative K X-ray Intensity Studies**
ALIM B., HAN İ., DEMİR L.
International Conferences on Advances in Natural and Applied Sciences (ICANAS 2016), Antalya, Türkiye, 21 - 23 Nisan 2016
- XVI. **Magnetic Field Effect on Delocalization and Charge Transfer in Invar Alloy**
ALIM B., HAN İ., DEMİR L.
International Conference on Advances in Natural and Applied Sciences (ICANAS 2016), 21 - 23 Nisan 2016
- XVII. **The Effect of External Magnetic Field on Valence Electron Configuration of Permalloy from Relative K X Ray Intensity Studies**
Alim B., Han İ., DEMİR L.
INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL AND APPLIED SCIENCES ICANAS 2016, 21 - 23 Nisan 2016
- XVIII. **Magnetic Field Effect on Valence Electron Structure of Invar**
ALIM B., HAN İ., DEMİR L.
Mühendislikte Yeni Teknolojiler Sempozyumu (MYT 2015), Türkiye, 22 - 24 Ekim 2015
- XIX. **Determination of valence electron density changing in accordance with various Co Concentration in some transition metal alloys**
Uğurlu M., ALIM B., Perişanoğlu U., DEMİR L.
9th international physics conference of the balkan physical union (BPU9), 24 - 27 Ağustos 2015
- XX. **A study of K shell x ray intensity ratios of NiCr1 x alloys in external magnetic field and determination of effective atomic numbers of these alloys**
Perişanoğlu U., ALIM B., Uğurlu M., DEMİR L.
9th international physics Conference of Balcan Physical Union (BPU9), 24 - 27 Ağustos 2015
- XXI. **Determination of K Shell Absorption jump Factors and Jump Ratios Using EDXRF Technique**
ALIM B., HAN İ., DEMİR L.
Turkish Physical Society 30th International Physical Congress (TFD 30), 2 - 05 Eylül 2013
- XXII. **X ışını Spektroskopisi ile Bazı 3d Geçiş Metal Alaşımlarında K Tabakası X ışını Tesir Kesitlerinin Belirlenmesi**
ALIM B., HAN İ., DEMİR L.

Uluslararası katılımlı XIII. Ulusal Spektroskopi Kongresi(USK 2013), Türkiye, 15 - 18 Mayıs 2013

XXIII. K Shell Fluorescence Parameters for Chromium Iron and Nickel Alloys

ALIM B., HAN İ., NARMANLI HAN E., DEMİR L.

Turkish Physical Society 29th International Physics Congress (TFD 29), 5 - 08 Eylül 2012

XXIV. K Shell Fluorescence Yields in Alloys,

Han İ., Demir L., Narmanlı E.

TFD-27,, İstanbul, Türkiye, 14 Eylül 2010, ss.36-550

XXV. Influence of Alloy Composition on K to L Shell Vacancy transfer probabilities

Han İ., Demir L., Narmanlı E.

TFD-27,, İstanbul, Türkiye, 14 Eylül 2010, ss.22-535

Desteklenen Projeler

DEMİR L., ALIM B., KURUCU Y., ŞANLI M., ÖZPOLAT Ö. F., UĞURLU M., URTEKİN E., Yükseköğretim Kurumları Destekli Proje, Geçiş Metal Alaşımlarında Compton saçılmasına ve Kb/Ka X-ışını şiddet oranlarına kimyasal etkinin araştırılması, 2019 - 2021

DEMİR L., ALIM B., KURUCU Y., Yükseköğretim Kurumları Destekli Proje, DIŞ MANYETİK ALANDA GEÇİŞ METAL ALAŞIMLARININ K TABAKASI VALENS ELEKTRON YAPILARININ ARAŞTIRILMASI, 2015 - 2017

KURUCU Y., ALIM B., DEMİR L., Yükseköğretim Kurumları Destekli Proje, DIŞ MANYETİK ALANDA İNKOHERENT SAÇILMA TESİR KESİTİ ÖLÇÜMLERİ, 2015 - 2017

Demir L., Yükseköğretim Kurumları Destekli Proje, Alaşımlarda X-ışını Şiddet Oranlarının XRF Sistemleri ile Ölçülmesi, 2009 - 2011

Demir L., Yükseköğretim Kurumları Destekli Proje, XRF Parametrelerinin Sıcaklığa Bağlı Davranışlarının Geçiş Metallerin de İncelenmesi, 2008 - 2009

Metrikler

Yayın: 96

Atf (WoS): 829

Atf (Scopus): 869

H-İndeks (WoS): 16

H-İndeks (Scopus): 15

Ödüller

Demir L., TURKISH PHYSICAL SOCIETY HONOUR AWARD, 2021 Yılı Türk Fizik Derneği, Eylül 2021

Demir L., Determination of Photon Armouring Parameters of AISI 304 Stainless Steel, I. International Conference On Advanced Engineering Technologies (Icadet 2017) Bayburt Üniversitesi , Engineering Faculty , Eylül 2017

Demir L., Fen Bilimleri Alanı Makale Dalında Üçüncülük Ödülü, Atatürk Üniversitesi , Nisan 2011

Akademi Dışı Deneyim

ATATÜRK ÜNİVERSİTESİ

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