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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
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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
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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**

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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**
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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.
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- 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.
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- 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.
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- 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.
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- XXII. **Determination of effective atomic numbers for 3d transition metal alloys with a new semi-empirical approach**
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- 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.
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- XXV. **Angular dependence of L-3-subshell X-ray emission following photoionisation**
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- XXVI. **Alloying effect on K to L shell vacancy transfer probabilities in 3d transition metals**
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- XXVII. **Relative K x-ray intensity studies on valence-electron structure of Ti and Co in Ti_xCo_{1-x} alloys**
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- 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 $40 \leq Z \leq 53$**
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- 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**
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- XXXV. **Mass attenuation coefficients, effective atomic numbers and electron densities of undoped and differently doped GaAs and InP crystals**
DEMİR L., HAN İ.
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- XXXVI. **The polarization of X-rays and magnetic photoionization cross-sections for L-3 sub-shell**
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- XXXVII. **Mass attenuation coefficients, effective atomic and electron numbers of Ti and Ni alloys**
Han I., Demir L.
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- XXXVIII. **Determination of mass attenuation coefficients, effective atomic and electron numbers for Cr, Fe and Ni alloys at different energies**
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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**
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- XL. **Angular variations of K and L X-ray fluorescence cross sections for some lanthanides**
HAN İ., ŞAHİN M., DEMİR L.
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- XLI. **Measurement of L X-ray fluorescence cross sections and relative intensities for some elements in the atomic range $78 \leq Z \leq 92$**
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- XLII. **Measurements of L X-ray production cross sections, L subshell fluorescence yields and K to L shell vacancy transfer probabilities**
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- XLIII. **Measurement of K X-ray fluorescence cross-sections, fluorescence yields and intensity ratios for some elements in the atomic range $22 \leq Z \leq 68$**
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- 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**
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- XLV. **F-10 Determination of K to L Vacancy Transfer Probabilities**
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- XLVI. **Measurement of K X-ray fluorescence cross-sections and yields for 5.96 keV photons**
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- XLVII. **Measurement of $L\iota$, $L\alpha$, $L\beta$ and $L\gamma$ X-ray fluorescence cross-sections in Hg, Tl, Pb and Bi for the exciting photons of 16.90-59.54keV energy**
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- 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.
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- XLIX. **Angular dependence of $L\iota$, $L\alpha$, $L\beta$ 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.
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- 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**
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- LII. **Calculation of multi-center integrals for the region of moderate and weak overlap**
KARABULUT A., budak G., DEMİR L., NABİYEV N., ŞAHİN Y.
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- LIII. **Measurement of angular dependence of photon-induced differential cross-sections of M X-rays from Pt, Au and Hg at 5.96 keV**
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- LIV. **L-subshell fluorescence cross sections and L-subshell fluorescence yields in elements $68 \leq Z \leq 92$ by 59.5 keV photons**
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- 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**
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- 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.
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- LIX. **Experimental studies on the coherent scattering of 59.5 keV gamma-rays by Fe, Zn and Nb**
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- 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**
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- LXI. **Monte Carlo calculations of XRF intensities in annular arrangements of radioactive source, sample, cylindrical collimator and detector**
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- 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**
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- II. **X Ray Intensity Ratios for Elements from 22 Z 40**
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- III. **X-ray Fluorescence in some medium-Z elements excited by 59.5 keV photons**
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- IV. **Kacal, The Change of Compton Scattering Depending on Tendency of crystals**
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