

## Prof. Önder ŞİMŞEK



### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Ataturk University, Fen Fakültesi, Fizik Bölümü, Turkey 1992 - 1996

Postgraduate, Ataturk University, Fen Fakültesi, Fizik Bölümü, Turkey 1990 - 1992

Undergraduate, Ataturk University, Kâzım Karabekir Eğitim Fakültesi, Fizik Eğitimi, Turkey 1985 - 1989

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Bazı elementlerin K ve L tabakalarına ait floresans verim değerlerinin Ge (Li) dedektörü ile ölçülmesi, Ataturk University, Fen Bilimleri Enstitüsü, 1996

Postgraduate, Th ve U'xxa ait I (L)/I(LB) Şiddet ile değişimlerin araştırılması, Ataturk University, Fen Bilimleri Enstitüsü, 1992

### Research Areas

Physics, Atomic and Molecular Physics, Natural Sciences

### Academic Titles / Tasks

Professor, Ataturk University, Kâzım Karabekir Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi, 2010 - Continues

Professor, University of Wisconsin-Madison, Physics Engineering, Plasma Physics, 2012 - 2012

Associate Professor, Ataturk University, Kâzım Karabekir Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi, 2005 - 2010

Associate Professor, State University of New York University of Albany, 2006 - 2006

Assistant Professor, Ataturk University, Kâzım Karabekir Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi, 1996 - 2005

## Academic and Administrative Experience

Dean, Agri Ibrahim Cecen University, Eğitim Fakültesi, 2021 - Continues

Vice Rector, Agri Ibrahim Cecen University, Rektörlük, 2017 - Continues

Dean, Agri Ibrahim Cecen University, Sultan Alparslan Doğa Bilimleri ve Mühendislik Fakültesi, 2018 - 2021

ÜAK ÜYE, Bayburt University, 2013 - 2013

Dean, Bayburt University, İktisadi Ve İdari Bilimler Fakültesi, 2012 - 2013

Vice Rector, Bayburt University, Rektörlük, 2012 - 2013

## Advising Theses

Şimşek Ö., Bilgi Kartı ve Yapboz Uygulamalarının "Güneş Sistemi ve Ötesi" Ünitesinde Akademik Başarı ve Tutuma Etkisi, Postgraduate, İ.GÖZDE(Student), 2023

Şimşek Ö., Tavlama sıcaklığının ve katkılamanın zno ince filmlerin yapışal ve optik özelliklerine etkisinin incelenmesi, Postgraduate, E.ŞENER(Student), 2019

Şimşek Ö., Fotovoltaik uygulamalar için karşılık elektrot olarak grafen/polimer nanokompozit üretimi ve performansının incelenmesi, Doctorate, E.İĞMAN(Student), 2019

Şimşek Ö., Fen bilimleri öğretmenlerinin eğitimde teknoloji kullanımına yönelik tutumlarının çeşitli değişkenlere göre incelenmesi, Postgraduate, S.SIPAHOĞLU(Student), 2019

Şimşek Ö., Mıknatıslar ve akımin manyetik etkisi konusunun öğrenilmesinde akran öğretimi yönteminin etkililiğinin incelenmesi, Doctorate, K.YAYLA(Student), 2017

ŞİMŞEK Ö., PLAZMA POLİMERİZASYON TEKNİĞİNİ KULLANARAK UÇUCU YA BİLEŞENLERİNDEN ELDE EDİLEN İNCE FİMLERİN BAZI FİZİKSEL ÖZELLİKLERİNİN VE ANTİBAKTERİYEL AKTİVİTELERNİN BELİRLENMESİ, Doctorate, Ö.BAYRAM(Student), 2016

Şimşek Ö., Plazma polimerizasyon tekniği kullanılarak uçucu yağ bileşenlerinden elde edilen ince filmlerin antibakteriyel etkilerinin ve bazı fiziksel özelliklerinin incelenmesi, Doctorate, Ö.BAYRAM(Student), 2016

Şimşek Ö., Ortaöğretim öğrencilerinin radyasyonla ilgili farkındalık düzeyleri, Doctorate, S.KARACA(Student), 2015

Şimşek Ö., Lise düzeyinde elektrikle ilgili kavramların öğretimi üzerine akran öğretimi (Peer instruction) yönteminin etkisi, Doctorate, Ö.YEŞİLOĞLU(Student), 2015

Şimşek Ö., Plazma polimerizasyonu tekniği ile elde edilen nano boyutlarda polianilin ince filmlerin, elektronik ve optik özelliklerinin araştırılması, Postgraduate, M.FEIZI(Student), 2014

Şimşek Ö., YBCO ince filmlerin darbeli lazer yiğma tekniğiyle hazırlanması, Doctorate, M.TOLGA(Student), 2011

Şimşek Ö., Kavramsal değişim metinlerinin üniversite öğrencilerinin geometrik optik konusundaki kavram yanıklarının düzeltilmesi ve fizik dersine karşı tutumlarına etkisinin incelenmesi, Doctorate, Z.ABİDİN(Student), 2010

Şimşek Ö., Bazı elementlerin K tabakasından L tabakasına boşluk geçiş ihtimaliyetlerinin ölçülmesi, Doctorate, D.KARAGÖZ(Student), 2001

Şimşek Ö., Si(li) dedektörü ile bazı elementlerin K tabakasına ait florans verim değerlerinin ölçülmesi, Postgraduate, S.YILMAZ(Student), 1999

## Published journal articles indexed by SCI, SSCI, and AHCI

### I. Factors influencing the acceptance of assistive technology by teacher candidates in the context of inclusive education and special needs students

Sahin F., Kızılaslan A., Simsek Ö.

EDUCATION AND INFORMATION TECHNOLOGIES, 2023 (SSCI)

### II. Determination of biological radioprotective characteristics of some natural organic compounds for

**radiation shielding applications**

AYGÜN B., ŞENTÜRK M., CİNAN E., Simsek Ö., Abu Al-Sayyed M. I., KARABULUT A.

RADIOCHIMICA ACTA, vol.110, no.11, pp.925-936, 2022 (SCI-Expanded)

- III. **Structural and optical properties of RF sputtered ZnO thin films: Annealing effect**

Sener E., Bayram O., HASAR U. C., ŞİMŞEK Ö.

PHYSICA B-CONDENSED MATTER, vol.605, 2021 (SCI-Expanded)

- IV. **Photoluminescence and structural properties of zirconium dioxide thin films produced by RF sputtering technique**

Bakacak P. K., Gür E., Bayram Ö., Tüzemen S., Simsek Ö.

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.6, pp.7541-7549, 2021 (SCI-Expanded)

- V. **Photovoltaic performance of non-covalent functionalized single-layer graphene in dye-sensitized solar cells (DSSCs)**

İĞMAN E., BAYRAM Ö., MAVİ A., HASAR U. C., Simsek Ö.

JOURNAL OF MATERIALS SCIENCE, vol.56, no.6, pp.4184-4196, 2021 (SCI-Expanded)

- VI. **Graphene/polyaniline nanocomposite as platinum-free counter electrode material for dye-sensitized solar cell: its fabrication and photovoltaic performance**

Bayram O., Igman E., Guney H., Demir Z., Yurtcan M. T., Çırak Ç., Hasar U. C., Simsek Ö.

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.13, pp.10288-10297, 2020 (SCI-Expanded)

- VII. **Vertically oriented graphene nano-sheets grown by plasma enhanced chemical vapor deposition technique at low temperature**

BAYRAM Ö., ŞİMŞEK Ö.

CERAMICS INTERNATIONAL, vol.45, no.11, pp.13664-13670, 2019 (SCI-Expanded)

- VIII. **The role of cobalt doping on the optical and structural properties of Mn<sub>3</sub>O<sub>4</sub> nanostructured thin films obtained by SILAR technique**

Bayram O., İĞMAN E., Guney H., ŞİMŞEK Ö.

Superlattices and Microstructures, vol.128, pp.212-220, 2019 (SCI-Expanded)

- IX. **Investigation of structural, morphological and optical properties of Nickel-doped Zinc oxide thin films fabricated by co-sputtering**

Bayram O., ŞENER E., İĞMAN E., ŞİMŞEK Ö.

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.4, pp.3452-3458, 2019 (SCI-Expanded)

- X. **Plasma polymerized linalool (ppLin): an antimicrobial and biocompatible coating**

ÇAKMAK K., BAYRAM Ö., SOLAK K., KABAN G., ŞİMŞEK Ö., MAVİ A.

TURKISH JOURNAL OF CHEMISTRY, vol.43, no.1, pp.323-334, 2019 (SCI-Expanded)

- XI. **A study on the optical, chemical and dielectric properties of PPCIN thin films derived from essential oil compounds using RF plasma polymerisation technique**

Bayram O., ŞİMŞEK Ö.

VACUUM, vol.156, pp.198-204, 2018 (SCI-Expanded)

- XII. **Effect of doping concentration on the structural and optical properties of nanostructured Cu-doped Mn<sub>3</sub>O<sub>4</sub> films obtained by SILAR technique**

Bayram O., Guney H., Ertargin M. E., Igman E., Simsek O.

APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.124, no.9, 2018 (SCI-Expanded)

- XIII. **Synthesis and characterization of Zn-doped Mn<sub>3</sub>O<sub>4</sub> thin films using successive ionic layer adsorption and reaction technique: Its structural, optical and wettability properties**

Bayram O., Ertargin M. E., Igman E., Guney H., Simsek O.

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.29, no.11, pp.9466-9473, 2018 (SCI-Expanded)

- XIV. **Effect of the number of cycles on the optical and structural properties of Mn<sub>3</sub>O<sub>4</sub> nanostructures obtained by SILAR technique**

- Bayram O, Simsek O, Guney H, Igman E, ÖZER M. M.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.29, no.12, pp.10542-10549, 2018 (SCI-Expanded)
- XV. **Investigation of the effect of RF energy on optical, morphological, chemical and antibacterial properties of PolyTerpenol thin films obtained by RF-PECVD technique**  
Bayram O, ŞİMŞEK Ö.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.29, no.8, pp.6586-6593, 2018 (SCI-Expanded)
- XVI. **Angular dependence of coherent to incoherent scattering differential cross section ratios for Zr Nb and Mo elements**  
ŞİMŞEK Ö, ERTUĞRUL M.  
Radiation Measurements, vol.38, pp.271-276, 2014 (SCI-Expanded)
- XVII. **Influence of deposition pressure (O<sub>2</sub>) on the YBCO (Y123) thin films prepared by pulsed laser deposition**  
YURTCAN M. T., ŞİMŞEK Ö, YILMAZ M., Hasar U, ERTUĞRUL M., Bayram O.  
Journal of Superconductivity and Novel Magnetism, vol.26, no.5, pp.1873-1877, 2013 (SCI-Expanded)
- XVIII. **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.  
JOURNAL OF NUCLEAR MATERIALS, vol.407, no.2, pp.110-115, 2010 (SCI-Expanded)
- XIX. **APPLICATION OF VARYING-FREQUENCY AMPLITUDE-ONLY TECHNIQUE FOR ELECTRICAL CHARACTERIZATION OF HARDENED CEMENT-BASED MATERIALS**  
Hasar U. C., ŞİMŞEK Ö, AYDIN A. C.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.52, no.4, pp.801-805, 2010 (SCI-Expanded)
- XX. **Average 2p subshells fluorescence yield values of some elements in the atomic number range 60 ≤ Z ≤ 90**  
ERTUĞRUL M., ÖZ E., ŞİMŞEK Ö, Şahin Y.  
Journal of Electron Spectroscopy and Related Phenomena, vol.177, no.1, pp.19-23, 2010 (SCI-Expanded)
- XXI. **Measurement of L subshell fluorescence yields of some elements in the atomic range 75≤Z≤92 using photoionization**  
Söğüt Ö, APAYDIN G, ŞİMŞEK Ö, Cengiz E, Saydam M, Küp N, Tıraşoğlu E.  
Radiation Physics and Chemistry, vol.78, no.5, pp.307-310, 2009 (SCI-Expanded)
- XXII. **A calibration-independent microwave method for position-insensitive and nonsingular dielectric measurements of solid materials**  
Hasar U. C., Simsek O.  
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.42, no.7, 2009 (SCI-Expanded)
- XXIII. **ON THE APPLICATION OF MICROWAVE CALIBRATION-INDEPENDENT MEASUREMENTS FOR NONINVASIVE THICKNESS EVALUATION OF MEDIUM- OR LOW-LOSS SOLID MATERIALS**  
Hasar U. C., Simsek O.  
PROGRESS IN ELECTROMAGNETICS RESEARCH-PIER, vol.91, pp.377-392, 2009 (SCI-Expanded)
- XXIV. **A SIMPLE APPROACH FOR EVALUATING THE RECIPROCITY OF MATERIALS WITHOUT USING ANY CALIBRATION STANDARD**  
Hasar U. C., Simsek O.  
PROGRESS IN ELECTROMAGNETICS RESEARCH-PIER, vol.91, pp.139-152, 2009 (SCI-Expanded)
- XXV. **A MICROWAVE METHOD FOR UNIQUE AND NON-AMBIGUOUS PERMITTIVITY DETERMINATION OF LIQUID MATERIALS FROM MEASURED UNCALIBRATED SCATTERING PARAMETERS**  
Hasar U. C., Simsek O, Zateroglu M. K., Ekinci A. E.  
PROGRESS IN ELECTROMAGNETICS RESEARCH-PIER, vol.95, pp.73-85, 2009 (SCI-Expanded)
- XXVI. **AN ACCURATE COMPLEX PERMITTIVITY METHOD FOR THIN DIELECTRIC MATERIALS**  
Hasar U. C., Simsek O.

- PROGRESS IN ELECTROMAGNETICS RESEARCH-PIER, vol.91, pp.123-138, 2009 (SCI-Expanded)
- XXVII. A SIMPLE PROCEDURE TO SIMULTANEOUSLY EVALUATE THE THICKNESS OF AND RESISTIVE LOSSES IN TRANSMISSION LINES FROM UNCALIBRATED SCATTERING PARAMETER MEASUREMENTS**  
 Hasar U. C., Simsek O., Gulnahan M.  
 JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.23, pp.999-1010, 2009 (SCI-Expanded)
- XXVIII. Calculation of radiation attenuation coefficients in Portland cements mixed with silica fume, blast furnace slag and natural zeolite**  
 Turkmen I., ÖZDEMİR Y., KURUDİREK M., Demir F., ŞİMŞEK Ö., Demirboga R.  
 ANNALS OF NUCLEAR ENERGY, vol.35, no.10, pp.1937-1943, 2008 (SCI-Expanded)
- XXIX. Trace elemental analysis of mitral valves by EDXRF**  
 Ates A., ŞİMŞEK Ö., Ertugral B., ERTUĞRUL M.  
 Spectroscopy, vol.22, no.1, pp.57-62, 2008 (SCI-Expanded)
- XXX. Effect on particle size to emitted X-ray intensity in pellet cement sample analyzed with WDXRF spectrometer**  
 Demir F., Simsek Ö., Budak G., KARABULUT A.  
 INSTRUMENTATION SCIENCE & TECHNOLOGY, vol.36, no.4, pp.410-419, 2008 (SCI-Expanded)
- XXXI. Measurement of mass attenuation coefficients in some Cr, Co and Fe compounds around the absorption edge and the validity of the mixture rule**  
 Turgut U., Simsek O., BÜYÜKKASAP E.  
 PRAMANA-JOURNAL OF PHYSICS, vol.69, no.2, pp.199-207, 2007 (SCI-Expanded)
- XXXII. X-ray attenuation coefficients of Fe compounds in the K-edge region at different energies and the validity of the mixture rule**  
 Turgut U., Buyukkasap E., Simsek O., Ertugrul M.  
 JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.92, no.2, pp.143-151, 2005 (SCI-Expanded)
- XXXIII. X-ray attenuation coefficient measurements for photon energies 4.508-13.375 keV in Cu, Cr and their compounds and the validity of the mixture rule**  
 Turgut U., Simsek O., BÜYÜKKASAP E., Ertugrul M.  
 ANALYTICA CHIMICA ACTA, vol.515, no.2, pp.349-352, 2004 (SCI-Expanded)
- XXXIV. Measurement of K to L shell vacancy transfer probabilities for the elements  $46 \leq Z \leq 55$  by photoionization**  
 ŞİMŞEK Ö., Karagöz D., ERTUĞRUL M.  
 Spectrochimica Acta - Part B Atomic Spectroscopy, vol.58, no.10, pp.1859-1865, 2003 (SCI-Expanded)
- XXXV. Photon-induced L-3 subshell X-ray intensity ratios for Re, Au, Tl and Pb**  
 Simsek O.  
 PHYSICA SCRIPTA, vol.67, no.4, pp.301-305, 2003 (SCI-Expanded)
- XXXVI. Inelastic scattering of 59.5 keV photons at small momentum transfers by Ti, Fe and Ni elements**  
 ŞİMŞEK Ö., ERTUĞRUL M., KARABULUT A., Budak G.  
 Journal of Quantitative Spectroscopy and Radiative Transfer, vol.75, no.6, pp.741-746, 2002 (SCI-Expanded)
- XXXVII. K shell fluorescence yields for elements with  $33 \leq Z \leq 53$  using 59.5 keV photons**  
 Imşek Ö., Ertugrul M., KARAGÖZ D., BUDAK G., Karabulut A., Yilmaz S., Doan O., Turgut Ü., Söüt Ö., POLAT R., et al.  
 RADIATION PHYSICS AND CHEMISTRY, vol.65, no.1, pp.27-31, 2002 (SCI-Expanded)
- XXXVIII. Measurement of K shell fluorescence cross sections and K shell fluorescence yields for the atomic region  $22 \leq Z \leq 64$  by 59.5 keV photons**  
 Simsek O., YILMAZ S., KARAGÖZ D., Ertugrul M.  
 JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.253, no.1, pp.143-147, 2002 (SCI-Expanded)
- XXXIX. Reply to "Comment on 'Coster-Kronig L-shell yield f(23) of Dy, W, and Bi' "**  
 ŞİMŞEK Ö., ERTUĞRUL M.  
 PHYSICAL REVIEW A, vol.65, no.3, 2002 (SCI-Expanded)
- XL. Measurement of probabilities of radiative vacancy transfer from the L-3 subshell to the M shell and the N shell for Pb, Th and U**

- Simsek O.  
 JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS, vol.35, no.4, pp.1045-1050, 2002 (SCI-Expanded)
- XLI. **Measurement of K beta 2 '/K beta 1 ' K beta 2 '/K alpha 1 relative intensities with Co-57 for heavy elements**  
 Ertugrul M., Simsek O.  
 JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS, vol.35, no.3, pp.601-604, 2002 (SCI-Expanded)
- XLII. **X-Ray attenuation coefficients at different energies and the validity of the mixture rule for compounds around the absorption edge**  
 TURGUT Ü., ŞİMŞEK Ö., Buyukkasap E., ERTUĞRUL M.  
 SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY, vol.57, no.2, pp.261-266, 2002 (SCI-Expanded)
- XLIII. **Fit values of M subshell fluorescence yields and Coster-Kronig transitions for elements with  $20 \leq Z \leq 90$**   
 SÖĞÜT Ö., BÜYÜKKASAP A. Ç., KÜÇÜKÖNDER A., ERTUĞRUL M., DOĞAN O., ERDOĞAN H., ŞİMŞEK Ö.  
 X-RAY SPECTROMETRY, vol.31, no.1, pp.62-70, 2002 (SCI-Expanded)
- XLIV. **Measurement of L subshell x-ray production cross-sections at energy 31.635 keV and L subshell fluorescence yields for elements  $74 \leq Z \leq 92$**   
 ERTUĞRUL M., Kaya A., Dogan O., Turgut U., Simsek O., Sogut O., Karagoz D.  
 X-RAY SPECTROMETRY, vol.31, no.1, pp.53-56, 2002 (SCI-Expanded)
- XLV. **Measurement of L subshell X-ray fluorescence cross-sections at 59.54 keV and L subshell fluorescence yields for elements in the atomic range  $55 \leq Z \leq 81$**   
 KAYA A., ERTUĞRUL M., DOĞAN O., SÖĞÜT Ö., TURGUT Ü., ŞİMŞEK Ö.  
 Analytica Chimica Acta, vol.441, no.2, pp.317-323, 2001 (SCI-Expanded)
- XLVI. **Measurement of K beta/K alpha intensity ratios for elements in the range  $22 \leq Z \leq 69$  at 59.5 keV**  
 Ertugrul M., SÖĞÜT Ö., Simsek O., BÜYÜKKASAP E.  
 JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS, vol.34, no.5, pp.909-914, 2001 (SCI-Expanded)
- XLVII. **X-ray fluorescence spectrometry analysis of trace elements in fly ash samples of Kemerkoy thermal power plants**  
 Dogan O., Symsek Ö., NUHOĞLU Y., Kopya M., Ertugrul M.  
 JOURNAL OF TRACE AND MICROPROBE TECHNIQUES, vol.19, no.2, pp.289-295, 2001 (SCI-Expanded)
- XLVIII. **L-2 sub-shell Coster-Kronig yield at  $Z=76$  and  $81$**   
 Simsek O.  
 NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.173, no.3, pp.269-274, 2001 (SCI-Expanded)
- XLIX. **Experimental study on coherent scattering of 59.54 keV gamma rays by Ag, In, and Sn**  
 Simsek O., Ertugrul M.  
 INSTRUMENTATION SCIENCE & TECHNOLOGY, vol.29, no.5, pp.407-414, 2001 (SCI-Expanded)
- L. **Measurement of relative intensities of L-3-subshell x rays in some high-Z elements**  
 Simsek O.  
 PHYSICAL REVIEW A, vol.63, no.1, 2001 (SCI-Expanded)
- LI. **X-ray fluorescence spectrometry analysis of trace elements in fly ash samples of Yenikoy Thermal Power Plants**  
 Dogan O., Simsek O., Ertugrul M., Kobya M.  
 INSTRUMENTATION SCIENCE & TECHNOLOGY, vol.29, no.5, pp.433-439, 2001 (SCI-Expanded)
- LII. **Coster-Kronig L-shell yield f(23), of Dy, W, and Bi**  
 Simsek O.  
 PHYSICAL REVIEW A, vol.62, no.5, pp.0-52517, 2000 (SCI-Expanded)
- LIII. **Determination of L-3 subshell X-ray production cross-sections and fluorescence yields of Pb, Th and**

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NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.170, pp.293-298, 2000 (SCI-Expanded)

- LIV. **Measurement of Coster-Kronig yields of the L-2 subshells of Er, Yb and Hf**

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JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS, vol.33, no.18, pp.3773-3778, 2000 (SCI-Expanded)

- LV. **Measurement of K shell fluorescence yields of some elements in the atomic range  $22 \leq Z \leq 30$  using photoionisation**

ŞİMŞEK Ö., DOĞAN O., TURGUT Ü., ERTUĞRUL M.

Radiation Physics and Chemistry, vol.58, no.3, pp.207-211, 2000 (SCI-Expanded)

- LVI. **Differential cross sections for incoherent scattering of gamma rays by elements**

Simsek O.

PHYSICAL REVIEW A, vol.61, no.4, 2000 (SCI-Expanded)

- LVII. **A new method for the determination of incoherent differential scattering cross sections**

Simsek O.

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS, vol.33, no.2, pp.201-206, 2000 (SCI-Expanded)

- LVIII. **A simple method to measure the differential coherent scattering cross-sections of elements**

Simsek O.

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.160, no.1, pp.7-10, 2000 (SCI-Expanded)

- LIX. **Relative L X-ray fluorescene cross-sections in heavy elements in the energy region of 16-122 keV**

Doğan O., ERTUĞRUL M., ŞİMŞEK Ö., TURGUT Ü., Erdogan H.

Turkish Journal of Physics, vol.23, no.6, pp.995-1004, 1999 (SCI-Expanded)

- LX. **Measurement of L shell fluorescence yields of some elements in the atomic range  $56 \leq Z \leq 64$  using photoionisation**

Simsek O., Dogan O., Turgut U., Ertugrul M.

RADIATION PHYSICS AND CHEMISTRY, vol.54, no.3, pp.229-233, 1999 (SCI-Expanded)

- LXI. **Measurement of L shell fluorescence yields of seven elements in the atomic number range  $79 \leq Z \leq 92$  using photoionization**

ŞİMŞEK Ö., Dogan O., Turgut U., Ertugrul M., Erdogan H.

X-RAY SPECTROMETRY, vol.28, no.2, pp.91-93, 1999 (SCI-Expanded)

- LXII. **Measurement of total atomic attenuation, total atomic photoelectric and total atomic scattering cross sections in the range  $40 \leq Z \leq 52$**

BUDAK G., KARABULUT A., Şimşek Ö., Ertugrul M.

Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms, vol.149, no.4, pp.379-382, 1999 (SCI-Expanded)

- LXIII. **Measurement of K shell fluorescence yield of some elements in the atomic range  $55 \leq Z \leq 62$  using photoionisation**

Simsek O.

PHYSICA SCRIPTA, vol.58, no.3, pp.235-237, 1998 (SCI-Expanded)

- LXIV. **Measurement of L-shell fluorescence yields of some elements in the atomic range  $65 \leq Z \leq 74$  using photoionization**

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