

Prof. Önder ŞİMŞEK



Personal Information

Office Phone: [+90 442 231 4051](tel:+904422314051)

Web: <https://avesis.atauni.edu.tr/osimsek>

International Researcher IDs

ScholarID: cTo753wAAAAJ

ORCID: 0000-0002-9285-1755

Publons / Web Of Science ResearcherID: HKE-6702-2023

Yoksis Researcher ID: 5358

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 değişiminin 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., Fotovoltaik uygulamalar için karşıt 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.SİPAHİOĞLU(Student), 2019

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

Şimşek Ö., Mıknatıslar ve akımın 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 FİLMLEİN BAZI FİZİKSEL ÖZELLİKLERİNİN VE ANTİBAKTERİYEL AKTİVİTELERİNİN 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 elektrik ile 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.FEİZİ(Student), 2014

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

Şimşek Ö., Kavramsal değişim metinlerinin üniversite öğrencilerinin geometrik optik konusundaki kavram yanlışlarının 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., Kizilaslan 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., İgman 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 Mn₃O₄ 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 Mn₃O₄ films obtained by SILAR technique**
Bayram O., Guney H., Ertargin M. E., İgman E., Simsek O.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.124, no.9, 2018 (SCI-Expanded)
- XIII. **Synthesis and characterization of Zn-doped Mn₃O₄ thin films using successive ionic layer adsorption and reaction technique: Its structural, optical and wettability properties**
Bayram O., Ertargin M. E., İgman 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 Mn₃O₄ 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 (O₂) 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 $60 \leq Z \leq 90$**
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 $75 \leq Z \leq 92$ 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., Ekinçi 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., Gulnihar 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**
İmşek Ö., Ertugrul M., KARAGÖZ D., BUDAK G., Karabulut A., Yılmaz 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)

- XLII. **Measurement of $K\beta_2/K\beta_1$ and $K\beta_2/K\alpha_1$ 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)
- XLIII. **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)
- XLIV. **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)
- XLV. **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)
- XLVI. **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)
- XLVII. **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)
- XLVIII. **X-ray fluorescence spectrometry analysis of trace elements in fly ash samples of Kemerkooy 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)
- XLIX. **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)
- L. **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., Kopya 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**

U

Simsek O.

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**
Simsek O.
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 fluorescence cross-sections in heavy elements in the energy region of 16-122 keV**
Doğan O., ERTUĞRUL M., ŞİMŞEK Ö., TURGUT Ü., Erdoğan 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**
Simsek O., Dogan O., Turgut U., Ertugrul M.
PHYSICAL REVIEW A, vol.58, no.2, pp.1040-1042, 1998 (SCI-Expanded)
- LXV. **Determination of X-ray total attenuation coefficient in Zr, Ag, In for energy range between 10.5-111.9 keV**
Turgut U., Buyukkasap E., Simsek O., Ertugrul M., Dogan O.
ACTA PHYSICA POLONICA A, vol.93, pp.693-700, 1998 (SCI-Expanded)

- LXVI. **Thickness effect on the $K\beta/K\alpha$ intensity ratio of Mo**
ERTUĞRUL M., ŞİMŞEK Ö., TIRAŞOĞLU E., Erdoğan H.
Turkish Journal of Physics, vol.21, no.9, pp.957-960, 1997 (SCI-Expanded)
- LXVII. **Measurement of LI, L alpha, L beta and L gamma X-ray fluorescence cross-sections in heavy elements excited by 59.5 and 123.6 keV photons**
DOĞAN O., Simsek O., Turgut U., Ertugrul M.
PHYSICA SCRIPTA, vol.56, no.6, pp.580-583, 1997 (SCI-Expanded)
- LXVIII. **Determination of total attenuation cross sections of Ti, Fe, Ni, Zn between 4.551-111.898 keV energy range**
Turgut U., Buyukkasap E., Simsek O., Ertugrul M., Dogan O.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.218, no.2, pp.267-272, 1997 (SCI-Expanded)
- LXIX. **Measurement of radiative vacancy distributions for the L(2), L(3) subshell and M shell of some elements with atomic range $69 \leq Z \leq 92$**
ERTUĞRUL M., Dogan O., Simsek O.
RADIATION PHYSICS AND CHEMISTRY, vol.49, no.2, pp.221-224, 1997 (SCI-Expanded)
- LXX. **Measurement of probabilities for vacancy transfer from the K to L shell of the elements $73 \leq Z \leq 92$**
ERTUĞRUL M., Dogan O., Simsek O., Turgut U., Erdogan H.
PHYSICAL REVIEW A, vol.55, no.1, pp.303-306, 1997 (SCI-Expanded)
- LXXI. **Direct determination of total atomic attenuation, total atomic photoelectric and total atomic scattering cross sections of Gd, Tb, Dy and Er at 60 keV**
Ertugrul M., Simsek O., DOĞAN O., Turgut U.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY-LETTERS, vol.213, no.1, pp.37-44, 1996 (SCI-Expanded)
- LXXII. **Analysis of titanium and zirconium in red mud with energy dispersive X-ray spectrometry**
KOBYA M., ERTUĞRUL M., DOĞAN O., ŞİMŞEK Ö.
INSTRUMENTATION SCIENCE & TECHNOLOGY, vol.24, no.4, pp.277-282, 1996 (SCI-Expanded)

Articles Published in Other Journals

- I. **The Impact of Engineering Design-Based STEM Education on Students' Attitudes Toward STEM and Problem-Solving Skills**
Şimşek G., Üldeş A., TAŞ Y., ŞİMŞEK Ö.
Journal of Science Learning, vol.6, no.3, pp.294-302, 2023 (Peer-Reviewed Journal)
- II. **An inclusive tactile based STEM activity for students with visual impairment: an electromagnet design**
Akarsu M., Kizilaslan A., Simsek Ö.
SCIENCE ACTIVITIES-PROJECTS AND CURRICULUM IDEAS IN STEM CLASSROOMS, vol.58, no.4, pp.183-200, 2022 (ESCI)
- III. **CVD VE PECVD TEKNİĞİ KULLANILARAK BAKIR FOLYOLAR ÜZERİNDE GRAFEN NANOYAPILARIN ELDE EDİLMESİ VE KARAKTERİZASYONU**
BAYRAM Ö., İĞMAN E., ŞİMŞEK Ö.
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.8, no.2, pp.1126-1134, 2019 (Peer-Reviewed Journal)
- IV. **YBa₂Cu₃O_{7-δ} Thin Film Growth on Different Substrates by Pulsed Laser Deposition**
YURTCAN M. T., ŞİMŞEK Ö., BAYRAM Ö., ERTUĞRUL M.
EASTERN ANATOLIAN JOURNAL OF SCIENCE, vol.3, pp.1-7, 2017 (Peer-Reviewed Journal)
- V. **TÜRKİYE'DEKİ ÖĞRETİM PROGRAMLARINDA RADYASYONKONUSUNUN YERİ**
KARACA S., ŞİMŞEK Ö.
INES JOURNAL, 2017 (Peer-Reviewed Journal)

- VI. **Characterization of Plasma Polymerised Polyaniline Thin Films**
BAYRAM Ö., ŞİMŞEK Ö., KHANGHAH M. F., YURTCAN M. T.
International Journal of Scientific and Technology Research (IJSTR), vol.3, pp.1-7, 2017 (Peer-Reviewed Journal)
- VII. **Characterization of Plasma Polymerized Polyaniline Thin Films**
BAYRAM Ö., ŞİMŞEK Ö., KHANGHAH M. F., YURTCAN M. T.
International Journal of Scientific and Technological Research, vol.5, no.5, pp.1-7, 2017 (Peer-Reviewed Journal)
- VIII. **AKRAN ÖĞRETİMİ YÖNTEMİNİN ORTAOKUL ÖĞRENCİLERİNİN FEN VE TEKNOLOJİ DERSİNDEKİ BAŞARISINA ETKİSİ**
YEŞİLOĞLU Ö., KARACA S., ŞİMŞEK Ö.
ASOS JOURNAL, 2017 (Peer-Reviewed Journal)
- IX. **AKRAN ÖĞRETİMİ YÖNTEMİNİN ÖĞRENCİLERİN MANYETİZMA KONUSUNDAKİ AKADEMİK BAŞARI VE TARTIŞMA İSTEKLİLİKLERİNE ETKİSİ**
ŞİMŞEK Ö., YAYLA K.
Journal of Instructional Technologies & Teacher Education, 2016 (Peer-Reviewed Journal)
- X. **The Views of Primary School Students about Radiation**
KARACA S., YEŞİLOĞLU Ö., ŞİMŞEK Ö.
Journal of Education and Future, 2016 (Peer-Reviewed Journal)
- XI. **Darbeli Lazer Yığıma Sistemi PLD ile YBCO İnce Filmlerin Hazırlanması**
Yurtcan M. T., Şimşek Ö., Ertuğrul M.
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.4, no.2, pp.157-167, 2011 (Peer-Reviewed Journal)
- XII. **Fizikte Öğrenme Güçlüklerinin Saptanmasına Yönelik Bir Çalışma**
TURGUT Ü., KARAMAN İ., SÖNMEZ E., DİLBER R., ŞİMŞEK Ö.
Kazım Karabekir Eğitim Fakültesi Dergisi, vol.13, pp.431-437, 2006 (Peer-Reviewed Journal)
- XIII. **AN INVESTIGATION OF STUDENTS ABILITIES IN ESTABLISHING RELATIONS BETWEEN SOME PHYSICAL CONCEPTS**
KARAMAN İ., DİLBER R., ERTUĞRUL M., ŞİMŞEK Ö., DÜZGÜN B.
BALKAN PHYSICS LETTERS, vol.11, no.1, pp.27-33, 2003 (Peer-Reviewed Journal)
- XIV. **Erzurum Bölgesindeki Liselerde Fizik Eğitiminin Durumu Ve Öğrencilerde Bazı Temel Kavramların Gelişimi**
ŞİMŞEK Ö., TURGUT Ü., KARAMAN İ., ERTUĞRUL M.
Fırat Üniversitesi Fen ve Müh. Bilimleri Dergisi, vol.14, pp.133-138, 2002 (Peer-Reviewed Journal)
- XV. **Öğretmenlik Uygulamasına Katılan Öğretmen Adaylarının Değerlendirilmesi**
DOĞAN O., DİLBER R., ERTUĞRUL M., KARAMAN İ., ŞİMŞEK Ö.
Fırat Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.13, pp.243-248, 2001 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Obtaining of Antibacterial Coatings Against E. Coli Bacteria by Plasma Polymerization Technique**
BAYRAM Ö., ŞİMŞEK Ö., İĞMAN E.
International Conference on Advanced Engineering Technologies (ICADET 2017), Bayburt, Turkey, 21 - 23 September 2017, pp.1341
- II. **Graphene Thin Films Grown by Chemical Vapor Deposition on Copper Foils**
İĞMAN E., ŞİMŞEK Ö., BAYRAM Ö.
International Conference on Advanced Engineering Technologies (ICADET 2017), Bayburt, Turkey, 21 - 23 September 2017, pp.1423
- III. **Investigation of Optical Properties of Polymeric Thin Films Derived from Essential Oil**
BAYRAM Ö., ŞİMŞEK Ö., İĞMAN E.
International Conference on Advanced Engineering Technologies (ICADET 2017), Bayburt, Turkey, 21 September - 23 July 2017, pp.1518
- IV. **Graphene Thin Films Grown By Chemical Vapor Deposition On Copper Foils**

İĞMAN E., ŞİMŞEK Ö., BAYRAM Ö.

İCADET 2017, Bayburt, Turkey, 21 - 23 September 2017

- V. **Obtaining of Antibacterial Coatings Against E. Coli Bacteria by Plasma Polymerization Technique**
BAYRAM Ö., ŞİMŞEK Ö., İĞMAN E.
İCADET 2017, Bayburt, Turkey, 21 - 23 September 2017
- VI. **Investigation of Some Physical Properties of Polymeric Thin Films Obtained from Essential Oil Components by Means of Using Plasma Polymerization Technique**
ŞİMŞEK Ö., BAYRAM Ö.
2nd INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL AND APPLIED SCIENCES (ICANAS 2017), Antalya, Turkey, 17 - 21 April 2017, pp.427
- VII. **Investigation Of Optical Properties Of The Organic Thin Films Produced On Quartz Glass Substrates**
ŞİMŞEK Ö., BAYRAM Ö.
International Conference on Nanoscience and Nanotechnology for Next Generation NANONG2016, 20 - 22 October 2016
- VIII. **OBTAINING OF ANTIBACTERIAL POLYMERIC THIN FILMS BY USING RF PECVD**
BAYRAM Ö., ŞİMŞEK Ö.
Conference on Nanoscience and Nanotechnology for Next Generation NANONG2016, 20 - 22 October 2016
- IX. **Physics Teacher Candidates Understandings and Misconceptions of Newton s Third Law of Motion**
Şimşek Ö., Şimşek D., Bayram Ö., Yurtcan M. T.
International Physics Conference at the Anatolian Peak (IPCAP 2016), Erzurum, Turkey, 25 - 27 February 2016, pp.299
- X. **Generation of Linalool Thin Films by Plasma Polymerization**
KAPLAN F., ÇAKMAK K., BAYRAM Ö., ŞİMŞEK Ö., MAVİ A., KOTAN R.
International Physics Conference at the Anatolian Peak (IPCAP 2016), 26 - 28 February 2016
- XI. **Investigation of electrical properties of polymeric thin films obtained from natural sources**
ŞİMŞEK Ö., BAYRAM Ö.
International Physics Conference at the Anatolian Peak (IPCAP 2016), 26 - 28 February 2016
- XII. **Characterization of thin film coatings obtained from essential oil components**
Şimşek Ö., Bayram Ö., Yurtcan M. T., İğman E.
International Physics Conference at the Anatolian Peak (IPCAP 2016), Erzurum, Turkey, 26 - 28 February 2016, pp.336
- XIII. **Fabrication of superconducting YBCO microwave microstrip resonators**
Ertuğrul M., Aras G., Hasar U. C., Yurtcan M. T., Sönmez E., Şimşek Ö.
10th IEEE Regional Symposium on Micro and Nano Electronics, RSM 2015, Kuala-Terengganu, Malaysia, 19 - 21 August 2015
- XIV. **RF PECVD Tekniği Kullanılarak Polianilin İnce Filmlerin Sentezi ve Karakterizasyonu**
Şimşek Ö., Bayram Ö., Özer M. M., Yurtcan M. T., İğman E., Khanghah M. F.
Mühendislikte Yeni Teknolojiler Sempozyumu (MYT2015), Bayburt, Turkey, 22 - 25 October 2015, pp.291
- XV. **Synthesis of thin film coatings from essential oil compounds by using RF PECVD**
Şimşek Ö., Bayram Ö., Özer M. M., Yurtcan M. T.
11. Ulusal Nanobilim ve Nanoteknoloji Konferansı (NanoTR11), Ankara, Turkey, 22 - 25 June 2015, pp.19
- XVI. **Artificial Pinning Centers for Superconducting Microwave Resonators**
Ertuğrul M., Aras G., Hasar U. C., Yurtcan M. T., Sönmez E., Şimşek Ö.
9th International Conference on Magnetic and Superconducting Materials (MSM15), Antalya, Turkey, 30 April - 03 May 2015, pp.101
- XVII. **Investigation of electrical properties of the Polyaniline thin films produced by using plasma polymerization technique**
Bayram Ö., Şimşek Ö., Yurtcan M. T., Tatar D., Khanghah M. F., Köç P.
10. Ulusal Nanobilim ve Nanoteknoloji Konferansı (NanoTR10), İstanbul, Turkey, 17 - 21 June 2014
- XVIII. **Characterization of Polymeric Thin Films from Cinnamaldehyde Essential Oil Compounds by Using Radio Frequency-Plasma Enhanced Chemical Vapor Deposition**

Bayram Ö., Köç P., Khanghah M. F., Kaplan F., Tatar D., Teke E., Yurtcan M. T., Öksüz L., Şimşek Ö.
International Middle East Plasma Science (1st IMEPS), Antalya, Turkey, 23 - 25 April 2014, pp.16

XIX. Deposition Pressure Effect on Roughness of YBCO Thin Films

Kılıçkaya T., Yurtcan M. T., Tatar D., Şimşek Ö., Ertuğrul M.

9. Ulusal Nanobilim ve Nanoteknoloji Konferansı (NanoTR-9), Erzurum, Turkey, 24 - 28 June 2013, pp.407

XX. Pressure effect in YBCO thin films on LAO Substrates by Pulsed Laser Deposition

Yurtcan M. T., Yılmaz M., Şimşek Ö., Ertuğrul M.

Turkish Physical Society 27th International Physics Congress, Istanbul, Turkey, 2010, İstanbul, Turkey, 14 - 17 September 2010, pp.709

XXI. Students Understanding Of Coulomb s Law And The Transfer Of Charge Between Conductors

DOĞAN O., DİLBER R., KARAMAN İ., ŞİMŞEK Ö., DÜZGÜN B., ERTUĞRUL M.

First Hellenic-Turkish International Conference, BODRUM, Turkey, 10 September - 15 August 2001, pp.257

XXII. Students Understanding Of Some Electrical Subjects

KARAMAN İ., DİLBER R., DOĞAN O., ŞİMŞEK Ö., DÜZGÜN B., ERTUĞRUL M.

First Hellenic-Turkish International Conference, 10 - 15 September 2001

XXIII. Investigation on Relation Between Secondary Education Achievement Criteria and Points of Student Selection Examination

DİLBER R., KARAMAN İ., DOĞAN O., ŞİMŞEK Ö., ERTUĞRUL M., DÜZGÜN B.

First Hellenic-Turkish International Conference, BODRUM, Turkey, 10 December - 15 November 2001, vol.262

Supported Projects

Şimşek Ö., Güney H., Güldüren M. E., Taşer A., Aygün B., Other International Funding Programs, SILAR yöntemi ile katkılı ve katkısız MgO yarıiletkeninin farklı altlıklar üzerine büyütülmesi ve karakterizasyonu, 2021 - 2023

Şimşek Ö., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Ağrı İbrahim Çeçen Üniversitesi ve Öğrencileri için 500 KW-p Fotovoltaik Güneş Enerjisi Santrali Uygulama Merkezinin Kurulumu, 2019 - 2021

Karabulut A., Şimşek Ö., Güney H., Aygün B., Taşer A., Okucu Ö., Energy and Natural Resources Ministry, Ağrı İbrahim Çeçen Üniversitesi ve Öğrencileri İçin 500 KW-p Fotovoltaik Güneş Enerjisi Santrali Uygulama Merkezinin Kurulumu, 2019 - 2021

ŞİMŞEK Ö., BAYRAM Ö., Project Supported by Higher Education Institutions, RF-PECVD TEKNİĞİYLE SÜPERHİDROFOBİK YÜZEYLERİN ELDE EDİLMESİ, 2015 - 2018

ŞİMŞEK Ö., BAYRAM Ö., İĞMAN E., Project Supported by Higher Education Institutions, GRAFEN İNCE FİLMLEİN ELDE EDİLMESİ VE KARAKTERİZASYONU, 2016 - 2017

Ertuğrul M., Yurtcan M. T., Şimşek Ö., Hasar U. C., Sönmez E., TUBITAK Project, YBCO Süperiletken Düzlemsel Mikrodalga Rezonatörünün Performansının İyileştirilmesi ve Fiziksel Özelliklerinin Araştırılması, 2013 - 2017

Şimşek Ö., Project Supported by Higher Education Institutions, Plazma Polimerizasyonu Tekniği ile Elde Edilen Nano Boyutlarda Polianilin İnce Filmlerin Elektronik Ve Optik Özelliklerinin Araştırılması, 2015 - 2015

ŞİMŞEK Ö., BAYRAM Ö., Project Supported by Higher Education Institutions, PLAZMA POLİMERİZASYONU TEKNİĞİ İLE ELDE EDİLEN NANO BOYUTLARDA POLİANİLİN İNCE FİLMLEİN, ELEKTRONİK VE OPTİK ÖZELLİKLERİNİN ARAŞTIRILMASI, 2014 - 2015

Şimşek Ö., Project Supported by Higher Education Institutions, Plazma polimerizasyon tekniği kullanılarak elektronik uygulamalar için ince filmlerin elde edilmesi, 2013 - 2015

ŞİMŞEK Ö., BAYRAM Ö., Project Supported by Higher Education Institutions, PLAZMA POLİMERİZASYON TEKNİĞİ KULLANILARAK ELEKTRONİK UYGULAMALAR İÇİN İNCE FİLMLEİN ELDE EDİLMESİ, 2013 - 2014

Metrics

Publication: 111

Citation (WoS): 923

Citation (Scopus): 908

H-Index (WoS): 17

H-Index (Scopus): 18