

Prof. ELİF ORHAN

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: H-5452-2012

ScopusID: 57034335100

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Biography

I am a professor in Department of Physics at Gazi University, Turkey. I have focused the research efforts on the field the X-Ray Fluorescence (XRF) Spectroscopy, graphene based Schottky diodes, optical waveguides, microdisk/ring add-drop multiplexers in the field of materials science, integrated optics and fiber optic communication systems.

Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 1996 - 2000

Postgraduate, Kütahya Dumlupınar University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 1993 - 1996

Undergraduate, Ataturk University, Kâzım Karabekir Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, Turkey 1989 - 1993

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Project Management, Proje Döngüsü Eğitimi, Ankara Kalkınma Ajansı, 2020

Entrepreneurship, Kosgeb Girişimcilik Eğitimi Sertifikası, T.C. Sanayi ve Teknoloji Bakanlığı, 2020

Other, TÜBİTAK BURSİYERLİK BAŞARI SERTİFİKASI, TÜBİTAK, 2019

Vocational Training, Bağımsız Dış Uzmanlık, Ulusal Ajans, 2015

Vocational Training, TÜBİTAK-2219, TÜBİTAK, 2013

Foreign Language, Yabancı Dil Kursu, University Maryland Baltimore County, 2013

Dissertations

Doctorate, Atom numarası 59-92 arasında olan bazı elementler için L tabakasına ait coster-kronig şiddetlendirme

faktörlerinin ölçülmesi, Ataturk University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2000

Postgraduate, Atom numarası 25Z101 olan elementler için L ve M tabakalarına ait ortalama floresans verimlerin hesaplanması, Kütahya Dumlupınar University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 1996

Research Areas

Physics, Theory of Atoms and Molecules, Atomic Spectra and Photon Interactions, Atomic and Molecular Interactions, Interdisciplinary Physics and Related Science and Technology Areas, Electronic and magnetic devices, microelectronics, Materials Science, Surfaces, Interfaces, Thin Films and Nanosystems

Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Fizik, 2013 - Continues

Professor, University of Maryland Baltimore County, College Of Engineering And Information Technology, Computer Science And Electrical Engineering, 2013 - 2014

Associate Professor, Gazi University, Fen Bilimleri Enstitüsü, İleri Teknolojiler Anabilim Dalı (Disiplinlerarası), 2008 - 2013

Associate Professor, Ataturk University, Fen Fakültesi, Fizik Bölümü, 2006 - 2008

Assistant Professor, Ataturk University, Fen Fakültesi, Fizik Bölümü, 2001 - 2006

Research Assistant, Pamukkale University, Faculty Of Arts And Sciences, Department Of Physics, 1994 - 2000

Academic and Administrative Experience

Gazi University, Fen Bilimleri Enstitüsü, İleri Teknolojiler Anabilim Dalı (Disiplinlerarası), 2012 - 2017

Gazi University, Fen Bilimleri Enstitüsü, İleri Teknolojiler Anabilim Dalı (Disiplinlerarası), 2008 - 2017

Enstitü Yönetim Kurulu Üyesi, Gazi University, Fen Bilimleri Enstitüsü, 2015 - 2016

Fakülte Yönetim Kurulu Üyesi, Gazi University, Fen Fakültesi, 2014 - 2016

Courses

Malzemelerin Elektriksel ve Manyetik Özellikleri, Doctorate, 2022 - 2023

GENERAL PHYSICS 2, Undergraduate, 2022 - 2023

GENERAL PHYSICS 1, Undergraduate, 2022 - 2023

GENERAL PHYSICS, Undergraduate, 2022 - 2023

GENERAL PHYSICS-I, Undergraduate, 2021 - 2022

Malzemelerin Elektriksel Ve Manyetik Özellikleri, Doctorate, 2021 - 2022

Genel Fizik-I, Undergraduate, 2020 - 2021

Genel Fizik-I, Undergraduate, 2020 - 2021

GENEL FİZİK-I, Undergraduate, 2020 - 2021

Modern Spectroscopy, Doctorate, 2018 - 2019

Micro and Nano Patterning Techniques, Doctorate, 2017 - 2018

General Physics II, Undergraduate, 2010 - 2011

Advising Theses

Orhan E., Kısa Dalga Kızıl Ötesi Uygulamalar İçin Hibrit Foto-diyot Geliştirilmesi, Doctorate, Z.Berktaş(Student), Continues

Orhan E., GRAFEN TEMELLİ HİBRİT İNCE FİLMLEİN BÜYÜTÜLMESİ VE ANALİZİ, Postgraduate, M.Albayrak(Student),

Continues

Orhan E., Development of SiPM receiver circuit for time of flight based microjoule-energy laser rangefinder with kilometer range, Doctorate, M.TİKEN(Student), 2023

Orhan E., Design and fabrication of infrared (IR) sensitive photodetector, Doctorate, E.Efil(Student), 2022

Orhan E., FABRICATION AND CHARACTERIZATION OF OPTO-ELECTRONIC DEVICE BY ATOMIC LAYER DEPOSITION METHOD, Doctorate, N.Kaymak(Student), 2022

Orhan E., STABILITY AND RELIABILITY ANALYSIS OF INTEGRATED OPTICAL DEVICES, Doctorate, S.Dönertaş(Student), 2021

Orhan E., Ertuğrul M., Si Dalgakılavuzlu Hibrit Fotodedektör Geliştirilmesi, Doctorate, E.Seven(Student), 2021

ORHAN E., Design, Characterization And Application Of Nd:Yvo4 Laser Crystal Green Laser With Mgo:Ppln Shg Crystal, Postgraduate, M.BURÇİN(Student), 2017

ORHAN E., Gas Detection Using Fiber Loop Ring-Down Spectroscopy, Postgraduate, F.HANİFEHPOURSARDROUD(Student), 2016

ORHAN E., Al/Poly(Methyl methacrylate)/p-Si organik schottky diyotların üretimi, elektrik ve dielektrik özelliklerinin incelenmesi, Doctorate, F.GONCA(Student), 2015

ORHAN E., Silikon nitrat (Si3N4) filmlerin plazma destekli kimyasal buhar biriktirme (PECVD) yöntemi ile üretimi ve optik karakterizasyonu, Postgraduate, E.ODABAŞI(Student), 2015

ORHAN E., Experimental Study Of Effects Of Ultrasonic Waves On Heat Distribution In Gaseous Medium, Postgraduate, M.KÖPRÜ(Student), 2015

ORHAN E., Fabrication and characterization of single mode silicon on insulator optical waveguide, Postgraduate, Ö.ARAS(Student), 2013

ORHAN E., Determination of the distribution of solar radiation in Turkey by satellite based quadratic model, Postgraduate, Y.ÖZDEMİR(Student), 2012

ORHAN E., Optic add-drop multiplexers, Postgraduate, F.GONCA(Student), 2012

ORHAN E., Calculation of average fluorescence yields of N shell for elements 38 ≤ Z ≤ 101, Postgraduate, İ.Yavuz(Student), 2012

ORHAN E., Determination of matrix effects on major oxides in geological samples by WD-XRF spektrometer, Postgraduate, G.BİLGE(Student), 2011

ORHAN E., AlGaN temelli UV-LED yapılarının metal organik buhar fazı epitaksisi yöntemi ile büyütülmesi ve karakterizasyonu, Postgraduate, M.ÖZTÜRK(Student), 2011

ORHAN E., The fabrication and characterization of benzocyclobutene (BCB 4022-35) polymer thin films by spin, Postgraduate, İ.KARAÇALI(Student), 2010

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Boğaziçi Üniversitesi, December, 2020

Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, December, 2020

Associate Professor Exam, Associate Professor Exam, Orta Doğu Teknik Üniversitesi, September, 2020

Associate Professor Exam, Associate Professor Exam, Çanakkale Onsekiz Mart Üniversitesi, September, 2020

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Bitlis Eren Üniversitesi, August, 2020

Published journal articles indexed by SCI, SSCI, and AHCI

I. Tunable dielectric characteristics of the nanocomposite diode based on functionalized graphene quantum dots with and without gadolinium

Berktaş Z., ANTER A., Dikicioğlu E., ULUSOY M., Candan C., YILDIZ M., Di Bartolomeo A., ORHAN E. Surfaces and Interfaces, vol.51, 2024 (SCI-Expanded)

II. Graphene/Al2O3/Si Schottky diode with integrated waveguide on a silicon-on-insulator wafer

Seven E., ORHAN E., Di Bartolomeo A., ERTUĞRUL M., Taştekin N. A.

Indian Journal of Physics, vol.98, no.8, pp.2795-2803, 2024 (SCI-Expanded)

- III. **Robust type-III C₃N/Ga₂O₃ van der Waals heterostructures**
Wu X., Liu X., Bi J., Zhang Y., Xiao W., Wang G., Wang D., Wang Z., Wang W., Zhang Z., et al.
Vacuum, vol.224, 2024 (SCI-Expanded)
- IV. **Electrical Properties of Laser Patterned Schottky Diode with ALD-Grown TiO₂ Interlayer**
Dikicioğlu E., BALI M., SAĞLAM S., Berberoğlu H., PAVLOV I., Goodarzi A., ORHAN E.
ACS Omega, vol.9, no.19, pp.21346-21352, 2024 (SCI-Expanded)
- V. **Lanthanum(III)hydroxide Nanoparticles and Polyethyleneimine-Functionalized Graphene Quantum Dot Nanocomposites in Photosensitive Silicon Heterojunctions**
ANTER A., ORHAN E., ULUSOY M., Polat B., YILDIZ M., Kumar A., Di Bartolomeo A., Faella E., Passacantando M., Bi J.
ACS Applied Materials and Interfaces, vol.16, no.17, pp.22421-22432, 2024 (SCI-Expanded)
- VI. **An artificial intelligence model estimation for functionalized graphene quantum dot-based diode characteristics**
Öter A., Ersöz B., Berktaş Z., BÜLBÜL H. İ., ORHAN E., SAĞIROĞLU Ş.
Physica Scripta, vol.99, no.5, 2024 (SCI-Expanded)
- VII. **Characterization of electrical parameters in PbO/SnO₂ double layer semiconductor (DLS) diodes**
Seven E., Akay D., Bilge Ocak S., Orhan E.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.169, 2024 (SCI-Expanded)
- VIII. **Effect of Gadolinium on Electrical Properties of Polyethyleneimine Functionalized and Nitrogen-Doped Graphene Quantum Dot Nanocomposite Based Diode**
Orhan E., Anter A., Ulusoy M., Polat B., Okuyucu C., Yıldız M., Altındal Ş.
ADVANCED ELECTRONIC MATERIALS, vol.1, no.1, pp.1-12, 2023 (SCI-Expanded)
- IX. **Green synthesis of copper nanoparticles from Nigella sativa seed extract and evaluation of their antibacterial and antiobesity activity**
Kumar M., Kaushik D., Kumar A., Gupta P., Proestos C., ÖZ E., ORHAN E., Kaur J., Khan M. R., Elobeid T., et al.
International Journal of Food Science and Technology, vol.58, no.6, pp.2883-2892, 2023 (SCI-Expanded)
- X. **Negative Capacitance Behavior at Low Frequencies of Nitrogen-Doped Polyethyleneimine-Functionalized Graphene Quantum Dots-Based Structure**
Berktaş Z., Orhan E., Ulusoy M., Yıldız M., Altındal Ş.
ACS Applied Electronic Materials, vol.5, no.3, pp.1804-1811, 2023 (SCI-Expanded)
- XI. **PEI N-doped graphene quantum dots/p-type silicon Schottky diode**
Berktaş Z., Yıldız M., Seven E., ORHAN E., ALTINDAL Ş.
FLATCHEM, vol.36, 2022 (SCI-Expanded)
- XII. **Performance evaluation of self-mixing interferometer with the ceramic type piezoelectric accelerometers**
Berberoğlu H., Tiken M., ESELLER K. E., ORHAN E., Candan C.
OPEN PHYSICS, vol.20, no.1, pp.78-86, 2022 (SCI-Expanded)
- XIII. **Double-exponential current-voltage (I-V) behavior of bilayer graphene-based Schottky diode**
Kutluoğlu E. E., ORHAN E., TATAROĞLU A., BAYRAM Ö.
PHYSICA SCRIPTA, vol.96, no.12, 2021 (SCI-Expanded)
- XIV. **Changes in frequency-dependent dielectric features of monolayer graphene/silicon structure due to gamma irradiation**
Seven E., ORHAN E., BİLGE OCAK S.
PHYSICA SCRIPTA, vol.96, no.12, 2021 (SCI-Expanded)
- XV. **The impact of gamma-ray irradiation on temperature-sensitive electrical characteristics of Graphene/Al₂O₃/p-type Si structure**
Kaymak N., Orhan E., Bilge Ocak S.
PHYSICA SCRIPTA, vol.96, no.12, 2021 (SCI-Expanded)
- XVI. **Gamma-ray irradiation effects on capacitance and conductance of graphene-based Schottky diode**
Kutluoğlu E. E., Orhan E., Bayram Ö., Bilge Ocak S.

- PHYSICA B-CONDENSED MATTER, vol.621, 2021 (SCI-Expanded)
- XVII. **Determining thermo-mechanical stress sources of an integrated optical device**
Donertas S., GÖKKAVAS M., ÖZBAY E., ORHAN E.
OPTIK, vol.242, 2021 (SCI-Expanded)
- XVIII. **Antibacterial Efficiencies of CVD-PECVD Graphene Nanostructures Synthesized onto Glass and Nickel Substrates against Escherichia coli and Staphylococcus aureus Bacteria**
ORHAN E., AYDIN B., AÇIK L., ÖZ F., Varzakas T.
APPLIED SCIENCES-BASEL, vol.11, no.17, 2021 (SCI-Expanded)
- XIX. **Dielectric characteristics and electrical conductivity behavior of graphene/Al₂O₃/p-type silicon structure**
Kaymak N., Orhan E., Bayram O., Bilge Ocak S.
Materials Chemistry and Physics, vol.258, 2021 (SCI-Expanded)
- XX. **Experimental Study on Km-Range Long-Distance Measurement Using Silicon Photomultiplier Sensor with Low Peak Power Laser Pulse**
Candan C., Tiken M., Berberoglu H., ORHAN E., Yeniay A.
APPLIED SCIENCES-BASEL, vol.11, no.1, 2021 (SCI-Expanded)
- XXI. **3D-graphene-laser patterned p-type silicon Schottky diode**
Orhan E., Efil E., Bayram O., Kaymak N., Berberoglu H., Candemir O., Pavlov I., Ocak S. B.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.121, 2021 (SCI-Expanded)
- XXII. **Current voltage analyses of Graphene-based structure onto Al₂O₃/p-Si using various methods**
Efil E., Kaymak N., Seven E., Orhan E., Bayram Ö., Bilge Ocak S., Tataroğlu A.
VACUUM, vol.181, 2020 (SCI-Expanded)
- XXIII. **Electrical properties of Graphene/Silicon structure with Al₂O₃ interlayer**
Kaymak N., Bayram Ö., Tataroğlu A., Bilge Ocak S., Orhan E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.12, pp.9719-9725, 2020 (SCI-Expanded)
- XXIV. **Effects of temperature and frequency on capacitance and conductance characteristics of zinc-oxide based MIS-Structure**
Kaymak N., Efil E., Seven E., Tataroğlu A., Bilge Ocak S., Orhan E.
PHYSICA B-CONDENSED MATTER, vol.576, 2020 (SCI-Expanded)
- XXV. **Performance evaluation of fiber-based ballistic composites against laser threats**
Candan C., Seymen A. A., Karatutlu A., Tiken M., Midilli Y., ORHAN E., Berberoglu H., ORTAÇ B.
OPTICS AND LASERS IN ENGINEERING, vol.121, pp.54-60, 2019 (SCI-Expanded)
- XXVI. **Frequency dependent dielectric properties of atomic layer deposition grown zinc-oxide based MIS structure**
Efil E., Kaymak N., Seven E., Tataroğlu A., Ocak S., Orhan E.
PHYSICA B-CONDENSED MATTER, vol.568, pp.31-35, 2019 (SCI-Expanded)
- XXVII. **Electrical characteristics analyses of zinc-oxide based MIS structure grown by atomic layer deposition**
Kaymak N., Efil E., Seven E., Tataroğlu A., Bilge S., Orhan E.
MATERIALS RESEARCH EXPRESS, vol.6, no.2, 2019 (SCI-Expanded)
- XXVIII. **Study of frequency dependent characterization: applied gamma-ray irradiation on metal-polymer nanostructure**
Akay D., Efil E., Kaymak N., Orhan E., Ocak S.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.318, no.2, pp.1409-1417, 2018 (SCI-Expanded)
- XXIX. **Investigation of dielectric properties of heterostructures based on ZnO structures**
Selcuk A. H., Orhan E., Ocak S., Selcuk A. B., Gökmen U.
MATERIALS SCIENCE-POLAND, vol.35, no.4, pp.885-892, 2017 (SCI-Expanded)
- XXX. **Quantitative X-Ray Analysis for Cr-Fe Binary Ferroalloys by Using EDXRF-WDXRF Techniques**
Buyukyildiz M., Boydas E., KURUDİREK M., ORHAN E.
INSTRUMENTS AND EXPERIMENTAL TECHNIQUES, vol.60, no.4, pp.584-588, 2017 (SCI-Expanded)

- XXXI. **Electrical analysis of Al/ZnO/p-Si, Al/PMMA/p-Si and Al/PMMA/ZnO/p-Si structures: Comparison study**
Ocak S., Selcuk A. B., Aras G., Orhan E.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.38, pp.249-256, 2015 (SCI-Expanded)
- XXXII. **Frequency dependent dielectric properties of PMMA deposited on p-type silicon**
Selcuk A. B., Ocak S., Aras G., ORHAN E.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.38, pp.119-125, 2015 (SCI-Expanded)
- XXXIII. **Electrical Characteristics of Al/Poly(methyl methacrylate)/p-Si Schottky Device**
Selcuk A. B., Ocak S., Aras F. G., ORHAN E.
JOURNAL OF ELECTRONIC MATERIALS, vol.43, no.9, pp.3263-3269, 2014 (SCI-Expanded)
- XXXIV. **Chemical shifts observed in L alpha X-ray emission lines of elements in the range of $26 \leq Z \leq 30$ in their halogen compounds**
Buyukyildiz M., Baydas E., KURUDİREK M., Oz E.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.292, no.2, pp.467-472, 2012 (SCI-Expanded)
- XXXV. **Chemical effects in the K alpha and K beta(1,3) of X-ray emission spectra of Fe**
Baydas E., Oz E.
JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA, vol.185, pp.27-31, 2012 (SCI-Expanded)
- XXXVI. **Measurements of Coster-Kronig enhancement factors for Tm-69**
Yilmaz R., ARICI K., Oz E., Tan M.
JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA, vol.184, pp.1-4, 2011 (SCI-Expanded)
- XXXVII. **Average 2p subshells fluorescence yield values of some elements in the atomic number range $60 \leq Z \leq 90$**
ERTUĞRUL M., Oz E., ŞİMŞEK Ö., Sahin Y.
JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA, vol.177, no.1, pp.19-23, 2010 (SCI-Expanded)
- XXXVIII. **Effects of chemical combination on x-ray K alpha and K beta(1,3) emission spectra of Co**
Baydas E., Oz E.
PHYSICA SCRIPTA, vol.81, no.1, 2010 (SCI-Expanded)
- XXXIX. **Chemical shifts of Cr K alpha and K beta(1,3) lines by WDXRF spectrometry**
Baydas E., Oz E.
X-RAY SPECTROMETRY, vol.38, no.5, pp.394-398, 2009 (SCI-Expanded)
- XL. **Measurements of Coster-Kronig enhancement factors for Yb, Lu, Os and Pt elements**
Yilmaz R., Oz E., Tan M., Durak R., Demirel A. I., Sahin Y.
RADIATION PHYSICS AND CHEMISTRY, vol.78, no.5, pp.318-322, 2009 (SCI-Expanded)
- XLI. **Chemical shifts of K alpha and K beta(1,3) X-ray emission spectra for oxygen compounds of Ti, Cr, Fe, Co, Cu with WDXRF**
Oez E., Baydas E., ŞAHİN Y.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.279, no.2, pp.529-537, 2009 (SCI-Expanded)
- XLII. **Determination of ratios of emission probabilities of Auger electrons and K-L-shell radiative vacancy transfer probabilities for 17 elements from Mn to Mo at 59.5 keV**
Oz E.
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.97, no.1, pp.41-50, 2006 (SCI-Expanded)
- XLIII. **Measurement of L shell X-ray fluorescence intensity ratios for some elements in the atomic number range of $66 \leq Z \leq 90$ by photoionization of consecutive L-subshells**
Oz E., Baydas E., Ertugrul M., Sahin Y.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.260, no.1, pp.75-79, 2004 (SCI-Expanded)
- XLIV. **Measurements of Coster-Kronig enhancement factors of some elements in the atomic number range $74 \leq Z \leq 90$**
Oz E., Sahin Y., Ertugrul M.
RADIATION PHYSICS AND CHEMISTRY, vol.69, no.1, pp.17-21, 2004 (SCI-Expanded)

- XLV. Measurements of Coster-Kronig enhancement factors of some elements in the atomic number range $66 \leq Z \leq 72$**
 Oz E., Ekinci N., Ertugrul M., Sahin Y.
 X-RAY SPECTROMETRY, vol.32, no.2, pp.153-157, 2003 (SCI-Expanded)
- XLVI. Measurement of alignment parameter for photon induced L-3 vacancies in the elements $59 \leq Z \leq 92$**
 Ertugrul M., Oz E., Sahin Y.
 PHYSICA SCRIPTA, vol.66, no.4, pp.289-292, 2002 (SCI-Expanded)
- XLVII. K-shell X-ray production cross-sections and fluorescence yields in some medium-Z elements**
 Ozdemir Y., Durak R., Oz E.
 RADIATION PHYSICS AND CHEMISTRY, vol.65, no.3, pp.199-204, 2002 (SCI-Expanded)
- XLVIII. Measurement of radiative vacancy distributions for the L-2, L-3 subshell and M shell of some elements with atomic range $41 \leq Z \leq 68$**
 Caliskan B., Ertugrul A., Oa E., Erdogan H.
 JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.74, no.2, pp.139-146, 2002 (SCI-Expanded)
- XLIX. Determination of the coating thicknesses due to the scattered radiation in energy dispersive X-ray fluorescence spectrometry**
 Ekinci N., Kurucu Y., Oz E., Sahin Y.
 RADIATION MEASUREMENTS, vol.35, no.3, pp.223-227, 2002 (SCI-Expanded)
- L. Measurement of the K-alpha and K-beta X-rays polarization degree and polarization effect on the K-beta/K-alpha intensity ratio**
 Ertugrul M., Simsek O., Dogan O., Oz E., Sogut O., Turgut U.
 NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.179, no.4, pp.465-468, 2001 (SCI-Expanded)
- LI. Measurement of atomic L shell Coster-Kronig yields ($f(12)$, $f(23)$ and $f(13)$) for some elements in the atomic number range $59 \leq Z \leq 90$**
 Oz E., Ekinci N., Ozdemir Y., Ertugrul M., Sahin Y., Erdogan H.
 JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS, vol.34, no.4, pp.631-638, 2001 (SCI-Expanded)
- LII. Measurement of sample thickness by an intensity ratio method**
 Ekinci N., Oz E., Kurucu Y., Sahin Y.
 INSTRUMENTATION SCIENCE & TECHNOLOGY, vol.29, no.2, pp.145-151, 2001 (SCI-Expanded)
- LIII. Measurement of foil and cable thicknesses by a transmission method**
 Ekinci N., Oz E., Kurucu Y., Sahin Y.
 INSTRUMENTATION SCIENCE & TECHNOLOGY, vol.29, no.5, pp.415-421, 2001 (SCI-Expanded)
- LIV. Measurement of atomic L shell fluorescence ($\omega(1)$, $\omega(2)$, $\omega(3)$) and Auger($a(1)$, $a(2)$ and $a(3)$) yields for some elements in the atomic number range $59 \leq Z \leq 85$**
 Oz E., Ozdemir Y., Ekinci N., Ertugrul M., Sahin Y., Erdogan H.
 SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY, vol.55, no.12, pp.1869-1877, 2000 (SCI-Expanded)
- LV. Calculation of average L shell fluorescence yields for the elements with $25 \leq Z \leq 101$**
 Oz E., Erdogan H., Ertugrul M.
 JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.242, no.1, pp.219-224, 1999 (SCI-Expanded)
- LVI. Calculation of average M shell fluorescence yields for elements with $29 \leq Z \leq 100$**
 Oz E., Erdogan H., Ertugrul M.
 X-RAY SPECTROMETRY, vol.28, no.3, pp.198-202, 1999 (SCI-Expanded)

Articles Published in Other Journals

- I. Case Study for Thermo Mechanical Performance of an Integrated Optic Device via Equation-Based

Modelling

Dönertaş S., Gökkavas M., Özbay E., Orhan E.

Journal of Science:Part A Engineering and Innovation, vol.8, no.1, pp.135-145, 2021 (Peer-Reviewed Journal)

- II. **Investigation of low-frequency dependent characteristics of Al/Maleic Anhydride (MA)/p-Si Schottky barrier diode**
Orhan E., Bilge Ocak S., Selçuk A. B.
AIP Conference Proceedings, vol.1935, no.1, pp.1-5, 2018 (Peer-Reviewed Journal)
- III. **Dielectric Properties of Al Poly methyl methacrylate PMMA p Si Structures at Temperatures Below 300 K**
Orhan E., Bilge Ocak S.
Procedia - Social and Behavioral Sciences, vol.195, pp.1740-1745, 2015 (Peer-Reviewed Journal)
- IV. **Experimental Study of Effects of Ultrasonic Waves on Heat Distribution in Gaseous Medium**
Köprü M., Orhan E., Bilge Ocak S.
Procedia - Social and Behavioral Sciences, vol.195, pp.2849-2858, 2015 (Peer-Reviewed Journal)
- V. **Benzocyclobutene BCB 4022 35 Single Mode Rib Waveguides**
ORHAN E., EKİNCİ N., ÖZDEMİR Y., ERTUĞRUL M., ŞAHİN Y., ERDOĞAN H.
Lecture Notes on Photonics and Optoelectronics, vol.1, no.1, pp.14-17, 2013 (Peer-Reviewed Journal)
- VI. **Benzocyclobutene BCB 4022 35 Polymer Thin Films by Spin Coating Method**
ORHAN E., EKİNCİ N., ÖZDEMİR Y., ERTUĞRUL M., ŞAHİN Y., ERDOĞAN H.
Lecture Notes on Photonics and Optoelectronics, vol.1, no.1, pp.9-13, 2013 (Peer-Reviewed Journal)
- VII. **Measurements of K shell fluorescence yields for Ti V Cr Fe Co Ni and Cu elements and their halogen compounds**
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ORHAN E., Project Supported by Higher Education Institutions, Kızılötesi (IR) Hassas Fotodedektör Tasarımı ve Üretimi, 2020 - Continues

Orhan E., Berberoğlu H., Aras F. G., Project Supported by Higher Education Institutions, Dinlenemeyen Fiber Optik Ağların Kurulması, 2015 - 2018

ORHAN E., Project Supported by Higher Education Institutions, Nd YVO4 Lazer Kristali ve Mgo PPLN SHG Kristali İle Yeşil Lazer Tasarımı Karakterizasyonu ve Uygulama Alanları, 2015 - 2017

ORHAN E., Project Supported by Higher Education Institutions, Stressiz SiN Filmlerin Plazma Destekli Kimyasal Buhar Yöntemi İle Üretimi ve Optik Karakterizasyonu, 2012 - 2015

Orhan E., TUBITAK Project, Si WAVEGÜDE TASARIMI, 2013 - 2014

ORHAN E., Project Supported by Higher Education Institutions, Si VE SiN HALKA KOVUKLARIN ÜRETİM ZORLUKLARININ AŞILMASI, 2012 - 2014

Orhan E., Project Supported by Higher Education Institutions, Yalıtkan Üstü Silikon Tek Kipli Optik Dalga Kılavuzu Üretimi ve Karakterizasyonu Buhar Yöntemi İle Üretimi ve Optik Karakterizasyonu, 2011 - 2012

Orhan E., Project Supported by Higher Education Institutions, POLİMER TABANLI TEK KIPLI SINGLE MODE OPTİK DALGA KILAVUZU ÜRETİMİ VE KARAKTERİZASYONU, 2010 - 2011

Orhan E., Project Supported by Higher Education Institutions, Jeolojik Numunelerde Karakteristik X Işınları Üzerine Kararlı Pellet Oluşumunun Etkisinin WD XRF Spektrometreyle Belirlenmesi, 2010 - 2011

Orhan E., Project Supported by Higher Education Institutions, Atom Numarası 9 Z 92 Olan Bazı Elementler İçin L2 L3 Coster Kronig Geçişlerinin Açılma Dağılımının Ölçülmesi, 2003 - 2004

Orhan E., Şahin Y., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Atom Numarası 9 Z 92 Olan Bazı Elementler İçin L2 L3 Coster Kronig Geçişlerinin Açılma Dağılımlarının Tabaka Alt Tabaka Seviye Genişliklerinin ve Tabii Çizgi Genişliklerinin Ölçülmesi Kimyasal Etkinin İncelenmesi ve Safra Kesesi Taşlarının EDXRF ile Kalitatif ve Kantitatif Analizlerinin Yapılması Doğu Anadolu Bölgesindeki Özellikli Suların ve Sanayi Atıklarının Kalitatif ve Kantitatif Analizlerinin Yapılması, 2002 - 2004

Activities in Scientific Journals

FRONTIERS IN NUTRITION, Committee Member, 2022 - Continues

Gazi University Journal of Science Part A: Engineering and Innovation, Assistant Editor/Section Editor, 2020 - Continues

Memberships / Tasks in Scientific Organizations

ULUSAL AJANS, Consultant, 2010 - Continues, Turkey

Scientific Refereeing

TUBITAK Project, 1501 - Industry R & D Projects Support Program, xxx, Turkey, October 2021

Journal Of Materials Science-Materials In Electronics, SCI Journal, October 2020

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, SCI Journal, August 2020

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TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, TÜBİTAK, Turkey, March 2018

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Scholarships

2219, TUBITAK, 2013 - 2014

Representation and Promotion Activities

Institutional Representation, Üniversite, United States Of America, Maryland, 2013 - 2014

Non Academic Experience

GAZİ ÜNİVERSİTESİ

UNIVERSITY OF MARYLAND BALTIMORE COUNTY (UMBC)

ATATÜRK ÜNİVERSİTESİ

PAMUKKALE ÜNİVERSİTESİ