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### International Researcher IDs

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### Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Fizik Bölümü/ Atom Ve Molekül Fiziği, Turkey 2002 - 2006

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Fizik Bölümü/ Atom Ve Molekül Fiziği, Turkey 1999 - 2002

Undergraduate, Karadeniz Technical University, Fen Edebiyat Fakültesi, Fizik Bölümü, Turkey 1995 - 1999

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Education Management and Planning, İş Sağlığı ve Güvenliği Uzmanlığı Temel Eğitim Programı- Eğitici Belgesi, T.C. Çalışma ve Sosyal Güvenlik Bakanlığı, 2013

Education Management and Planning, Öğretmenlik Formasyonu, KTU Fatih Eğitim Fakültesi, 1999

### Dissertations

Doctorate, 65 Z 92 BÖLGESİNDE BAZI ELEMENTLERİN K VE L X-IŞINI FLORESANS PARAMETRELERİNİN ÖLÇÜLMESİ, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Fizik Bölümü/ Atom Ve Molekül Fiziği, 2006

Postgraduate, 69 Z 92 BÖLGESİNDEKİ BAZI ELEMENTLERİN M KABUÇUNA AİT TESİR KESİTLERİNİN, ORTALAMA FLORESANS VERİMLERİNİN VE DİFERANSİYEL TESİR KESİTLERİNİN ÖLÇÜLMESİ, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Fizik Bölümü/ Atom Ve Molekül Fiziği, 2002

## Research Areas

Physics, Atomic and Molecular Physics, Atomic Spectra and Photon Interactions, Chemistry, Analytical Chemistry, Spectroscopical Methods, Natural Sciences

## Academic Titles / Tasks

Professor, Karadeniz Technical University, Fen Fakültesi, Fizik, 2015 - Continues  
Associate Professor, Karadeniz Technical University, Fen Fakültesi, Fizik, 2010 - 2015  
Assistant Professor, Karadeniz Technical University, Fen Fakültesi, Fizik, 2008 - 2010  
Assistant Professor, Giresun University, Fen Edebiyat Fakültesi , Fizik Bölümü, 2007 - 2008  
Lecturer, Karadeniz Technical University, -----, 2002 - 2007  
Research Assistant, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Fizik Bölümü, 2000 - 2002

## Academic and Administrative Experience

BAP Coordinator, Karadeniz Technical University, Rektörlük, 2024 - Continues  
Fakülte Kurulu Üyesi, Karadeniz Technical University, Fen Fakültesi, Fizik, 2022 - Continues  
Anabilim Dalı Akademik Kurul Üyesi, Karadeniz Technical University, Adli Bilimler Enstitüsü, 2020 - Continues  
Karadeniz Technical University, Fen Fakültesi, Fizik, 2018 - Continues  
Karadeniz Technical University, Fen Fakültesi, 2013 - 2016  
Karadeniz Technical University, Fen Bilimleri, 2011 - 2013  
Fakülte Kurulu Üyesi, Karadeniz Technical University, Fen Fakültesi, Fizik, 2010 - 2013

## Supervised Theses

Apaydın G., FARKLI MARKA DIŞ MACUNLARINDA TİTANYUM DİOKSİT MİKTARI VE KANSEROJEN RİSKİNİN BELİRLENMESİ, Postgraduate, İ.ESİN(Student), 2025  
APAYDIN G., Metal Katkılı Hidroksiapatit Yapay Kemik Tozlarının Gama Işını Soğurma Parametrelerinin Hesaplanması ve Elementel Analizi, Doctorate, O.Kağan(Student), 2019  
APAYDIN G., Ag-Cu İnce Film Alaşımlarına ait X-ışını Floresans Parametrelerinin EDXRF yöntemiyle ölçülmesi, Postgraduate, K.Karabulut(Student), 2015  
APAYDIN G., Brom İçeren Bazı Schiff Bazı Moleküllerinin Kristal ve Moleküler Yapılarının Deneysel ve Kuramsal Yöntemlerle İncelenmesi, Doctorate, C.ALAŞALVAR(Student), 2013  
APAYDIN G., Farklı Marka Ofis Kağıtlarında XRF Yöntemiyle Element Analizi, Postgraduate, M.YAYLI(Student), 2013  
APAYDIN G., Titanyum ve Türevlerinin XRF Yöntemiyle Kimyasal Etkilerinin Araştırılması, Postgraduate, O.Kağan(Student), 2013  
APAYDIN G., Co, Ni, Cu, Zn Komplekslerinin K X-ışını Floresans Parametreleri Üzerine Kimyasal Etkiler, Postgraduate, M.SAYDAM(Student), 2009

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

- Investigation of radiation shielding properties of CeO<sub>2</sub> thin films prepared at different molarities**  
Kanmaz İ., Köksal O., Apaydın G., Tomakin M., Cengiz E.  
Physica Scripta, vol.100, no.3, 2025 (SCI-Expanded)
- The K $\beta$ /K $\alpha$  X-ray intensity ratios of Cu and Ag in Cu-Ag thin alloy films**  
Söğüt Ö., Cengiz E., Ayaz D. H., Apaydın G.  
APPLIED RADIATION AND ISOTOPES, vol.200, 2023 (SCI-Expanded)

- III. **The effect of metal rate on the gamma shielding parameters of hydroxyapatite at medical treatment energies**  
Koksal O., Apaydin G., Karahan I., Tozar A.  
APPLIED RADIATION AND ISOTOPES, vol.190, 2022 (SCI-Expanded)
- IV. **Evaluation of ecological risk, source, and spatial distribution of some heavy metals in marine sediments in the Middle and Eastern Black Sea region, Turkey**  
Apaydin A., Kabaoglu H., Apaydin G., Şirin M., Cengiz E., Koksal O. K., Baltaş H., Tıraşoğlu E.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.29, no.5, pp.7053-7066, 2022 (SCI-Expanded)
- V. **Determination of L-shell fluorescence parameters of thallium in thallium compounds**  
Cengiz E., TIRAŞOĞLU E., APAYDIN G., Koksal O. K.  
SPECTROSCOPY LETTERS, vol.54, no.4, pp.274-280, 2021 (SCI-Expanded)
- VI. **Elemental Analysis of Tea Leaves (Camellia Sinensis) and Their Own Soils at Eastern Black Sea Region in Turkey**  
AKSOY C., Kabaoglu H., Apaydin G., Safi A., Tirasoglu E.  
SPECTROSCOPY AND SPECTRAL ANALYSIS, vol.40, no.4, pp.1315-1320, 2020 (SCI-Expanded)
- VII. **Examination of Polymeric Azomethine Compounds and Their Transition Metal Complexes by Using XRF and XRD Technique**  
Söğüt Ö., Kara B. D., APAYDIN G., Cengiz E., Kazancı A.  
Guang Pu Xue Yu Guang Pu Fen Xi/Spectroscopy and Spectral Analysis, vol.40, no.1, pp.328-332, 2020 (SCI-Expanded)
- VIII. **Assessment of the mass attenuation parameters with using gamma-rays for manganese substituted nano hydroxyapatite**  
Koksal O. K., Apaydin G., Tozar A., Karahan I. H., Cengiz E.  
RADIATION PHYSICS AND CHEMISTRY, vol.159, pp.76-80, 2019 (SCI-Expanded)
- IX. **Determination of valence electronic structure of Ni in Ni-B alloy coatings using K-beta-to-K-alpha X-ray intensity ratios**  
Cengiz E., Koksal O. K., APAYDIN G., KARAHAN İ. H., ÜNAL E.  
APPLIED RADIATION AND ISOTOPES, vol.144, pp.24-28, 2019 (SCI-Expanded)
- X. **Elemental analysis for iron, cobalt, copper and zinc decorated hydroxyapatite synthetic bone dusts by EDXRF and SEM**  
Koksal O. K., Wrobel P., APAYDIN G., Cengiz E., LANKOSZ M., Tozar A., Karahan I. H., ÖZKALAYCI F.  
MICROCHEMICAL JOURNAL, vol.144, pp.83-87, 2019 (SCI-Expanded)
- XI. **Chemical Analysis of Hydroxyapatite Artificial Bone Powders by Energy Dispersive X-Ray Fluorescence Spectrometry (EDXRF)**  
KÖKSAL O. K., APAYDIN G., CENGİZ E., SAMEK L., KARAHAN İ. H., TOZAR A., LANKOSZ M.  
SPECTROSCOPY AND SPECTRAL ANALYSIS, vol.38, no.6, pp.2645-2649, 2018 (SCI-Expanded)
- XII. **Chemical Analysis of Hydroxyapatite Artificial Bone Powders by Energy Dispersive X-Ray Fluorescence Spectrometry (EDXRF)**  
KÖKSAL O. K., APAYDIN G., CENGİZ E., SAMEK L., KARAHAN İ. H., TOZAR A., LANKOSZ M.  
SPECTROSCOPY AND SPECTRAL ANALYSIS, vol.38, no.6, pp.2645-2649, 2018 (SCI-Expanded)
- XIII. **Chemical Analysis of Hydroxyapatite Artificial Bone Powders by Energy Dispersive X-Ray Fluorescence Spectrometry (EDXRF)**  
Koksal O. K., Apaydin G., Cengiz E., Samek L., Karahan I. H., Tozar A., Lankosz M.  
SPECTROSCOPY AND SPECTRAL ANALYSIS, vol.38, no.8, pp.2645-2649, 2018 (SCI-Expanded)
- XIV. **Examination of the Change of the Characteristic X-Rays of the Zinc in Fluorine- and Boron-Doped ZnO Thin Films**  
Sogut O., Kerli S., CENGİZ E., APAYDIN G.  
ACTA PHYSICA POLONICA A, vol.133, no.5, pp.1124-1128, 2018 (SCI-Expanded)
- XV. **K X-ray fluorescence parameters of peripherally and non-peripherally tetra-substituted zinc (II) phthalocyanines**  
Cengiz E., DOĞAN M., BIYIKLIOĞLU Z., ÇAKIR D., TIRAŞOĞLU E., APAYDIN G.

- CANADIAN JOURNAL OF PHYSICS, vol.95, no.2, pp.125-129, 2017 (SCI-Expanded)
- XVI. **Comparison of elemental analysis for different kind of papers by using energy dispersive X-ray spectrometer**  
Yaylı M., Koksall O., APAYDIN G., ŞİRİN M., Cengiz E., BALTAŞ H.  
Asian Journal of Chemistry, vol.29, no.6, pp.1301-1307, 2017 (SCI-Expanded)
- XVII. **K Shell Fluorescence Parameters by Impact of 5. 96 keV Photons on Ti and Its Compounds**  
Koksall O. K., APAYDIN G., Cengiz E.  
SPECTROSCOPY AND SPECTRAL ANALYSIS, vol.36, no.12, pp.4125-4129, 2016 (SCI-Expanded)
- XVIII. **Experimental study on copper uptake capacity in the Mediterranean mussel (*Mytilus galloprovincialis*)**  
BALTAS H., DALGIC G., BAYRAK E. Y., SIRIN M., ÇEVİK U., APAYDIN G.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.23, no.11, pp.10983-10989, 2016 (SCI-Expanded)
- XIX. **Measurement of L-III Subshell Absorption Jump Parameters of Hafnium**  
CENGİZ E., Saritaş N., Dogan M., KÖKSAL O. K., Karabulut K., APAYDIN G., Tıraşoğlu E.  
SPECTROSCOPY AND SPECTRAL ANALYSIS, vol.35, pp.3544-3548, 2015 (SCI-Expanded)
- XX. **Molecular structure, quantum mechanical calculation and radical scavenging activities of (E)-4,6-dibromo-2-[(3,5-dimethylphenylimino)methyl]-3-methoxyphenol and (E)-4,6-dibromo-2-[(2,6-dimethylphenylimino)methyl]-3-methoxyphenol compounds**  
Alasalvar C., Soylu M. S., Guder A., Albayrak C., APAYDIN G., Dilek N.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.130, pp.357-366, 2014 (SCI-Expanded)
- XXI. **Crystal structure, DFT and HF calculations and radical scavenging activities of (E)-4,6-dibromo-3-methoxy-2-[(3-methoxyphenylimino)methyl]phenol**  
Alasalvar C., Soylu M. S., Guder A., Albayrak C., APAYDIN G., Dilek N.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.125, pp.319-327, 2014 (SCI-Expanded)
- XXII. **Examination of CoNiCu thin films by using XRF and XRD**  
Sogut O., Donuk C., APAYDIN G., Bakkaloglu O. F.  
CANADIAN JOURNAL OF PHYSICS, vol.92, no.5, pp.435-439, 2014 (SCI-Expanded)
- XXIII. **Some Element Levels in Moss Samples Collected from the Iğdir-Nahhicevan International Highway, Turkey**  
ÖZDEMİR T., BATAN N., Mendil D., APAYDIN G., Cengiz E.  
ASIAN JOURNAL OF CHEMISTRY, vol.25, no.12, pp.6741-6744, 2013 (SCI-Expanded)
- XXIV. **Determination of Trace Elements in Ashes of Milk Samples by Using XRF Technique**  
Sogut O., Bali T., BALTAS H., Apaydin G.  
ASIAN JOURNAL OF CHEMISTRY, vol.25, no.8, pp.4385-4388, 2013 (SCI-Expanded)
- XXV. **Spectroscopy studies, X-ray diffraction and DFT, HF calculations of 4-allyl-5-(thiophen-2-ylmethyl)-2H-1,2,4-triazol-3(4H)-one**  
Alasalvar C., Soylu M. S., ÜNVER Y., APAYDIN G., UNLUER D.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1033, pp.243-252, 2013 (SCI-Expanded)
- XXVI. **Structure and anion effect on conductivity and K and L shell fluorescence parameters at green solvents**  
Aylikci V., ÜNVER Y., Dugdu E., TIRAŞOĞLU E., Aylikci N. K., Unluer D., SANCAK K., Kahoul A., Dogan M., Cengiz E., et al.  
CHEMICAL PHYSICS LETTERS, vol.556, pp.365-371, 2013 (SCI-Expanded)
- XXVII. **Determination of K shell fluorescence cross-section and K-beta/K-alpha intensity ratios for Fe, Se, Te, FeSe, FeTe and TeSe**  
Saydam M., AKSOY C., Cengiz E., Alasalvar C., TIRAŞOĞLU E., APAYDIN G.  
RADIATION PHYSICS AND CHEMISTRY, vol.81, no.12, pp.1837-1841, 2012 (SCI-Expanded)
- XXVIII. **Calculation of vacancy transfer probabilities from K to L shell using the X-ray fluorescence parameters**

- APAYDIN G., TIRAŞOĞLU E.  
RADIATION PHYSICS AND CHEMISTRY, vol.81, no.10, pp.1593-1594, 2012 (SCI-Expanded)
- XXIX. **Updated database and new empirical values for K-shell fluorescence yields**  
Kahoul A., Aylikci V., Aylikci N. K., Cengiz E., APAYDIN G.  
RADIATION PHYSICS AND CHEMISTRY, vol.81, no.7, pp.713-727, 2012 (SCI-Expanded)
- XXX. **Reply to comments on 'The investigations on K and L X-ray fluorescence parameters of gold compounds'**  
Cengiz E., Aylikci V., TIRAŞOĞLU E., APAYDIN G.  
RADIATION PHYSICS AND CHEMISTRY, vol.81, no.2, pp.143-145, 2012 (SCI-Expanded)
- XXXI. **Chemical effects on the L-shell X-ray fluorescence parameters of Ta and W compounds**  
AKSOY C., TIRAŞOĞLU E., Cengiz E., APAYDIN G., Saydam M., Aylikci V., Aylikci N. K.  
JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA, vol.184, pp.556-560, 2012 (SCI-Expanded)
- XXXII. **Measurement of K-shell jump ratios and jump factors for some elements in  $76 \leq Z \leq 92$  using EDXRF spectrometer**  
KAYA N. S., APAYDIN G., TIRAŞOĞLU E.  
RADIATION PHYSICS AND CHEMISTRY, vol.80, no.6, pp.677-681, 2011 (SCI-Expanded)
- XXXIII. **K-shell X-ray fluorescence parameters of some heavy elements and compounds**  
Cengiz E., TIRAŞOĞLU E., APAYDIN G., Aylikci V., Aylikci N. K., AKSOY C.  
RADIATION PHYSICS AND CHEMISTRY, vol.80, no.3, pp.328-334, 2011 (SCI-Expanded)
- XXXIV. **Investigation on L-shell X-ray fluorescence parameters for heavy elements and compounds**  
CENGİZ E., TIRAŞOĞLU E., Aylikci V., APAYDIN G., Aylikci N. K.  
CHEMICAL PHYSICS LETTERS, vol.498, pp.107-112, 2010 (SCI-Expanded)
- XXXV. **The investigations on K and L X-ray fluorescence parameters of gold compounds**  
Cengiz E., TIRAŞOĞLU E., Aylikci V., APAYDIN G.  
RADIATION PHYSICS AND CHEMISTRY, vol.79, no.8, pp.809-815, 2010 (SCI-Expanded)
- XXXVI. **Analysis of Metal Contents of Seaweed (*Ulva lactuca*) from Istanbul, Turkey by EDXRF**  
APAYDIN G., Aylikci V., Cengiz E., Saydam M., Kup N., TIRAŞOĞLU E.  
TURKISH JOURNAL OF FISHERIES AND AQUATIC SCIENCES, vol.10, no.2, pp.215-220, 2010 (SCI-Expanded)
- XXXVII. **Chemical Effect on K Shell X-ray Fluorescence Parameters and Radiative Auger Ratios of Co, Ni, Cu, and Zn Complexes**  
Cengiz E., BIYIKLIOĞLU Z., AYLIKCI N. K., AYILKCI V., APAYDIN G., TIRAŞOĞLU E., KANTEKİN H.  
CHINESE JOURNAL OF CHEMICAL PHYSICS, vol.23, no.2, pp.138-144, 2010 (SCI-Expanded)
- XXXVIII. **Alloying effect on K shell X-ray fluorescence parameters and radiative Auger ratios of Co and Zn in  $Zn_xCo_{1-x}$  alloys**  
Aylikci N. K., TIRAŞOĞLU E., Karahan I. H., Aylikci V., Cengiz E., APAYDIN G.  
CHEMICAL PHYSICS LETTERS, vol.484, pp.368-373, 2010 (SCI-Expanded)
- XXXIX. **Analysis of Trace Element Concentrations of Some Lichens of Turkey**  
ASLAN A., Apaydin G., YAZICI K., Cengiz E., Aylikci V., TIRAŞOĞLU E.  
ASIAN JOURNAL OF CHEMISTRY, vol.22, no.1, pp.389-400, 2010 (SCI-Expanded)
- XL. **Determination of Some Elements in Moss Samples from North Eastern Anatolia, Turkey**  
ÖZDEMİR T., Apaydin G., Mendil D., BULUT V. N., Cengiz E., GÜNDOĞDU A., Aylikci V.  
ASIAN JOURNAL OF CHEMISTRY, vol.22, no.1, pp.346-352, 2010 (SCI-Expanded)
- XLI. **Influence of chemical effect on the K-shell X-ray production cross-sections and radiative Auger ratios of Zn complexes**  
AYLIKCI V., BIYIKLIOĞLU Z., CENGİZ E., AYLIKCI N. K., APAYDIN G., AKSOY C., TIRAŞOĞLU E., KANTEKİN H.  
CHEMICAL PHYSICS, vol.365, no.3, pp.144-149, 2009 (SCI-Expanded)
- XLII. **Influence of alloying effect on X-ray fluorescence parameters of Co and Cu in CoCuAg alloy films**  
AYLIKCI N. K., TIRAŞOĞLU E., Apaydin G., Cengiz E., Aylikci V., Bakkaloglu O. F.  
CHEMICAL PHYSICS LETTERS, vol.475, pp.135-140, 2009 (SCI-Expanded)
- XLIII. **Studies on mass attenuation coefficients, effective atomic numbers and electron densities for CoCuAg alloy thin film**

APAYDIN G., Cengiz E., TIRAŞOĞLU E., Aylikci V., Bakkaloglu O. F.

PHYSICA SCRIPTA, vol.79, no.5, 2009 (SCI-Expanded)

**XLIV. Measurement of L subshell fluorescence yields of some elements in the atomic range  $75 \leq Z \leq 92$  using photoionization**

Sogut O., APAYDIN G., ŞİMŞEK Ö., CENGİZ E., Saydam M., Kup N., TIRAŞOĞLU E.

RADIATION PHYSICS AND CHEMISTRY, vol.78, no.5, pp.307-310, 2009 (SCI-Expanded)

**XLV. Influence of Chemical Effect on the K-beta/K-alpha Intensity Ratios and K-beta Energy Shift of Co, Ni, Cu, and Zn Complexes**

APAYDIN G., AYLIKCI V., BIYIKLIOĞLU Z., TIRAŞOĞLU E., KANTEKİN H.

CHINESE JOURNAL OF CHEMICAL PHYSICS, vol.21, no.6, pp.591-595, 2008 (SCI-Expanded)

**XLVI. Investigation by XRF and XRD of Zn and Fe in  $\text{Fe}_x\text{Zn}_{1-x}$  thin films**

Sogut O., Butun H., Karahan I. H., TIRAŞOĞLU E., APAYDIN G.

PHYSICA SCRIPTA, vol.78, no.6, 2008 (SCI-Expanded)

**XLVII. An L(III) ( $2P(3/2)$ ) subshell absorption jump ratio and jump factor for bismuth**

KAYA N. S., KOBYA A. I., TIRAŞOĞLU E., APAYDIN G.

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS, vol.41, no.22, 2008 (SCI-Expanded)

**XLVIII. Chemical effects on K and L shell production cross sections and transfer probabilities in Nb compounds**

Cengiz E., Aylikci V., KAYA N. S., APAYDIN G., TIRAŞOĞLU E.

JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.278, no.1, pp.89-96, 2008 (SCI-Expanded)

**XLIX. Influence of functional group effect on the K-shell X-ray production cross-sections and average fluorescence yields of sulphur in 1,2,4-triazol-5-one compounds containing thiophene**

Aylikci V., Cengiz E., APAYDIN G., ÜNVER Y., SANCAK K., TIRAŞOĞLU E.

CHEMICAL PHYSICS LETTERS, vol.461, pp.332-337, 2008 (SCI-Expanded)

**L. Determination of K shell X-ray intensity ratios for some heavy elements**

APAYDIN G., Aylikci V., Cengiz E., KAYA N. S., Kobya Y., TIRAŞOĞLU E.

RADIATION PHYSICS AND CHEMISTRY, vol.77, no.8, pp.923-927, 2008 (SCI-Expanded)

**LI. Measurement of L shell X-ray production and average L shell fluorescence yields for some heavy elements at 123.6 keV**

APAYDIN G., Aylikci V., KAYA N. S., CENGİZ E., TIRAŞOĞLU E.

ACTA PHYSICA POLONICA A, vol.113, no.6, pp.1629-1638, 2008 (SCI-Expanded)

**LII. Radioactive contamination in lichens collected from Trabzon and Rize in the Eastern Black Sea Region, Turkey, and a comparison with that of 1995**

YAZICI K., Ertugral B., DAMLA N., APAYDIN G.

BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.80, no.5, pp.475-479, 2008 (SCI-Expanded)

**LIII. Investigation of Coster-Kronig transition probabilities ( $L-1 \rightarrow L-2$ ,  $L-1 \rightarrow L-3$ , and  $L-2 \rightarrow L-3$ ) for Hf and Hf compounds**

Cengiz E., APAYDIN G., Aylikci V., Kaya N., TIRAŞOĞLU E.

JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN, vol.77, no.5, 2008 (SCI-Expanded)

**LIV. Determination of K shell absorption jump factors and jump ratios in the elements between Tm ( $Z=69$ ) and Os ( $Z=76$ ) by measuring K shell fluorescence parameters**

KAYA N. S., TIRAŞOĞLU E., APAYDIN G.

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.266, no.7, pp.1043-1048, 2008 (SCI-Expanded)

**LV. Measurement of angular dependence of M X-ray production cross-sections in Re, Bi and U at 5.96 keV**

APAYDIN G., TIRAŞOĞLU E., Sogut O.

EUROPEAN PHYSICAL JOURNAL D, vol.46, no.3, pp.487-492, 2008 (SCI-Expanded)

**LVI. K shell, L shell-subshell and M shell-subshell photoeffect cross-sections in elements between Tb ( $Z=65$ ) and U ( $Z=92$ ) at 123.6 keV**

- KAYA N. S., APAYDIN G., AYLIKCI V., CENGİZ E., TIRAŞOĞLU E.  
RADIATION PHYSICS AND CHEMISTRY, vol.77, no.2, pp.101-106, 2008 (SCI-Expanded)
- LVII. **K-shell absorption jump factors and jump ratios in elements between Tm (Z=69) and Os (Z=76) derived from new mass attenuation coefficient measurements**  
Kaya N., Tirasoglu E., Apaydin G., Aylikci V., Cengiz E.  
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.262, no.1, pp.16-23, 2007 (SCI-Expanded)
- LVIII. **Chemical effect on the K and L shell intensity ratios of Hf compounds**  
Aylikci V., Tirasoglu E., Apaydin G., Kaya N., CENGİZ E.  
PHYSICA SCRIPTA, vol.76, no.1, pp.31-36, 2007 (SCI-Expanded)
- LIX. **Chemical effect on the L X-ray cross-sections and average fluorescence yields of Hf compounds**  
Aylikci V., Apaydin G., Tirasoglu E., Kaya N., CENGİZ E.  
CHEMICAL PHYSICS, vol.332, pp.348-352, 2007 (SCI-Expanded)
- LX. **K-beta/K-alpha X-ray intensity ratios for elements in the range  $16 \leq Z \leq 92$  excited by 5.9, 59.5 and 123.6 keV photons**  
ERTUGRAL B., APAYDIN G., Cevik U., ERTUGRUL M., KOBYA A. I.  
RADIATION PHYSICS AND CHEMISTRY, vol.76, no.1, pp.15-22, 2007 (SCI-Expanded)
- LXI. **Assesment of trace elements in rainbow trout (*Oncorhynchus mykiss*) cultured in the marine aquaculture cages on the Black Sea Coast**  
VEREP B., AKIN S., MUTLU C., APAYDIN G., ERTUGRAL B., Cevik U.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.16, pp.1005-1011, 2007 (SCI-Expanded)
- LXII. **Measurement of K shell fluorescence cross-section of Ca and K compounds**  
Tirasoglu E., Sogut O., TEKBIYIK A., Apaydin G., ERTUGRUL B.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.103, no.2, pp.275-280, 2007 (SCI-Expanded)
- LXIII. **Elemental concentration analysis in some plant samples by EDXRF at Trabzon**  
Tirasoglu E., Sogut O., Apaydin G., Aylikci V., DAMLA N.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.102, no.3, pp.396-401, 2006 (SCI-Expanded)
- LXIV. **Measurements of K shell X-ray production cross sections and fluorescence yields of elements in the atomic number range  $65 \leq Z \leq 92$  at 123.6 keV**  
Apaydin G., Tıraşoğlu E.  
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.246, no.2, pp.303-308, 2006 (SCI-Expanded)
- LXV. **Determination of probabilities of vacancy transfer from K to L shell using K X-ray intensity ratios**  
ERTUGRAL B., APAYDIN G., TEKBIYIK A., TIRASOĞLU E., Cevik U., KOBYA A. İ., ERTUGRUL M.  
EUROPEAN PHYSICAL JOURNAL D, vol.37, no.3, pp.371-375, 2006 (SCI-Expanded)
- LXVI. **Chemical effects on the K-beta/K-alpha X-ray intensity ratios of Mn, Ni and Cu complexes**  
Cevik U., Degirmencioglu I., Ertugral B., Apaydin G., Baltas H.  
EUROPEAN PHYSICAL JOURNAL D, vol.36, no.1, pp.29-32, 2005 (SCI-Expanded)
- LXVII. **Determination of trace elements in cole (*Brassica oleraceae* var. *acephale*) at Trabzon region in Turkey**  
TIRASOĞLU E., Cevik U., ERTUGRAL B., APAYDIN G., BALTAS H., ERTUGRUL M.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.94, no.2, pp.181-187, 2005 (SCI-Expanded)
- LXVIII. **Measurement of vacancy transfer probabilities from K to L shell for high atomic number elements**  
ERTUGRAL B., APAYDIN G., BALTAS H., Cevik U., KOBYA A. İ., ERTUGRUL M.  
SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY, vol.60, no.4, pp.519-524, 2005 (SCI-Expanded)
- LXIX. **Total M shell X-ray production cross sections and average fluorescence yields in 11 elements from Tm to U at photon energy of 5.96 keV**  
APAYDIN G., TIRASOĞLU E., Cevik U., ERTUGRAL B., BALTAS H., ERTUGRUL M., KOBYA A. İ.

- RADIATION PHYSICS AND CHEMISTRY, vol.72, no.5, pp.549-554, 2005 (SCI-Expanded)
- LXX. **Mass attenuation coefficients of YBaCuO and BiPbSrCaCuO superconductors at 511, 661 and 1274keV energies**  
BALTAS H., Cevik U., TIRASOGLU E., ERTUGRAL B., APAYDIN G., KOBYA A. İ.  
RADIATION MEASUREMENTS, vol.39, no.1, pp.33-37, 2005 (SCI-Expanded)
- LXXI. **Analysis of elements in some lichens by radioisotope X-ray fluorescence spectrometry**  
ASLAN A., BUDAK G., TIRASOGLU E., KARABULUT A., KARAGOZ Y. S., APAYDIN G., ERTUGRAL B., Cevik U.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.13, no.8, pp.740-747, 2004 (SCI-Expanded)
- LXXII. **Chemical effects on L-alpha, L-beta, L-gamma, L-I, and L-eta X-ray production cross-sections and L-i/L-alpha X-ray intensity ratios of Hg, Pb, and Bi compounds at 59.54 keV**  
TIRASOGLU E., Cevik U., ERTUGRAL B., APAYDIN G., ERTUGRUL M., KOBYA A. İ.  
EUROPEAN PHYSICAL JOURNAL D, vol.26, no.3, pp.231-236, 2003 (SCI-Expanded)
- LXXIII. **Elemental analysis of Akcaabat tobacco and its ash by EDXRF spectrometry**  
Cevik U., ERGEN E., BUDAK G., KARABULUT A., TIRASOGLU E., APAYDIN G., KOPYA A.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.78, pp.409-415, 2003 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Analysis the Metal Composition of Fish Samples Collected From Karacaören II Dam Lake**  
Köksal O. K., Apaydın G., Cengiz E., Şirin M., Baltaş H., Çakmak E., Tıraşoğlu E.  
JOURNAL OF ANATOLIAN ENVIRONMENTAL AND ANIMAL SCIENCES, vol.9, no.1, pp.74-81, 2024 (Peer-Reviewed Journal)
- II. **Exploration of Seasonal Metal Pollution in Karacaören II Dam Lake Sediment Samples using X-ray Fluorescence Method**  
APAYDIN G., KÖKSAL O. K., BALTAŞ H., ŞİRİN M., CENGİZ E., TIRAŞOĞLU E.  
CUMHURİYET SCIENCE JOURNAL, vol.44, pp.567-582, 2023 (Peer-Reviewed Journal)
- III. **A research on the gamma ray attenuation characteristics for real bone and manganese substituted artificial bone dust**  
KÖKSAL O. K., TOZAR A., CENGİZ E., KARAHAN İ. H., APAYDIN G.  
Cumhuriyet Science Journal, vol.41, no.1, pp.85-92, 2020 (Peer-Reviewed Journal)
- IV. **A Comprehensive Research on Gamma-Ray Attenuation Characteristics of the Metal-Doped Hap and Natural Animal Bone**  
Köksal O. K., Cengiz E., Tozar A., KARAHAN İ. H., APAYDIN G.  
GÜMÜŞHANE ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, vol.10, no.1, pp.51-59, 2020 (Peer-Reviewed Journal)
- V. **Assessment of natural radioactivity and radiological risk of sediment samples in Karacaören II dam Lake, Isparta/Turkey**  
APAYDIN G., KÖKSAL O. K., Cengiz E., TIRAŞOĞLU E., Baltaş H., Karabulut K., SÖĞÜT Ö.  
ALKU Journal of Science, no.1, pp.28-35, 2019 (Peer-Reviewed Journal)
- VI. **Determination of the Mass Attenuation Coefficient Effective Atomic Number and Electron Density for Nano Manganese Hydroxyapatite by using 778-1457 keV Gamma Rays**  
KÖKSAL O. K., CENGİZ E., APAYDIN G., TOZAR A., KARAHAN İ. H.  
Journal of Nuclear Sciences, vol.5, no.2, pp.24-29, 2019 (Peer-Reviewed Journal)
- VII. **Measurement of K Shell Fluorescence Yields in Boron and Fluorine-doped ZnO Thin Films by XRF Technique**  
Sogut O., APAYDIN G., Cengiz E., KERLI S.  
KSU J Eng Sci, vol.21, no.3, pp.209-216, 2018 (Peer-Reviewed Journal)
- VIII. **The Trace Element Analysis in Freshwater Fish Species, Water and Sediment in Iyidere Stream (Rize-Turkey)**  
VEREP B., MUTLU C., APAYDIN G., ÇEVİK U.



Pakistan Journal of Biological Sciences, vol.15, no.14, pp.658-665, 2012 (Scopus)

- IX. **Chemical effect on L shell cross sections of Ta Compounds Irradiated with 59.5 keV Photons**  
AKSOY C., TIRAŞOĞLU E., CENGİZ E., Saydam M., APAYDIN G.  
Balkan Physics Letters, vol.19, pp.175-179, 2011 (Peer-Reviewed Journal)

## Books

- I. **MEASUREMENTS OF MASS ATTENUATION COEFFICIENTS OF THE WALLPAPERS PRODUCED FROM WASTE LINTER FIBERS PRECIPITATED NANO-Fe<sub>3</sub>O<sub>4</sub>**  
SÖĞÜT Ö., APAYDIN G., Öz E., KÖKSAL O. K., Uruş S., Tutuş A.  
in: UMTEB III. Uluslararası Mesleki ve Teknik Bilimler Kongresi, Emek M., Alimgereyev Z., Editor, İksad Uluslararası Yayın Evi, Gaziantep, pp.2366-2373, 2018
- II. **INVESTIGATION OF STRUCTURAL AND ELECTRONIC PROPERTIES OF WFeNi THIN FILMS**  
SÖĞÜT Ö., Cengiz E., APAYDIN G., KÖKSAL O. K., KERLİ S.  
in: UMTEB III. Uluslararası Mesleki ve Teknik Bilimler Kongresi Tam Metin Kitabı, Emek M., Alimgereyev Z., Editor, İksad Uluslararası Yayın Evi, Gaziantep, pp.878-882, 2018
- III. **WFENİ İNCE FİLM ALAŞIMLARINDA KB/KA KATERİSTİ KX-IŞINI ŞİDDET ORANLARININ XRF TEKNİĞİ İLE İNCELENMESİ**  
Reyhanhoğlu H., Söğüt Ö., APAYDIN G., KÖKSAL O. K., Cengiz E.  
in: UMTEB III. Uluslararası Mesleki ve Teknik Bilimler Kongresi Tam Metin Kitabı, Emek M., Alimgereyev Z., Editor, İksad Uluslararası Yayın Evi, Gaziantep, pp.872-877, 2018
- IV. **NANO-Fe<sub>3</sub>O<sub>4</sub> ÇÖKTÜRÜLMÜŞ ATIK LİNER LİFLERİNDEN ÜRETİLMİŞ DUVAR KÂĞIDININ KÜTLE SOĞURMA KATSAYILARININ ÖLÇÜLMESİ**  
SÖĞÜT Ö., APAYDIN G., Öz E., KÖKSAL O. K., Uruş S., Tutuş A.  
in: UMTEB III. Uluslararası Mesleki ve Teknik Bilimler Kongresi, Emek M., Alimgereyev Z., Editor, İksad Uluslararası Yayın Evi, Gaziantep, pp.2366-2373, 2018

## Papers Published in Refereed Scientific Meetings

- I. **DETERMINATION of METAL POLLUTION LEVEL IN WATER SAMPLES of KARACAÖREN II DAM LAKE BY FLAME ATOMIC ABSORPTION SPECTROMETER**  
APAYDIN G., CENGİZ E., KÖKSAL O. K., BULUT V. N.  
5. International Antalya Scientific Research and Innovative Studies Congress, Antalya, Turkey, 26 July 2023
- II. **NATURAL RADIOACTIVITY TESTING ON LAKE FISH SAMPLES FROM KARACAÖREN II DAM LAKE**  
APAYDIN G., BALTAŞ H., KÖKSAL O. K., ŞİRİN M., ÇAKMAK E., CENGİZ E., TIRAŞOĞLU E.  
4TH INTERNATIONAL ACHARAKA CONGRESS ON LIFE, ENGINEERING, AND APPLIED SCIENCES, İzmir, Turkey, 15 - 17 July 2023
- III. **PRODUCTION OF CELESTITE POWDER ADDED POLYMER COMPOSITE FOR THYROID PROTECTIVE COLLAR DESIGN AND INVESTIGATION OF GAMMA RAY SHIELDING CHARACTERISTICS**  
Özpinar İ., Çava K., Aslan M., Alver Ü., Apaydın G.  
V. INTERNATIONAL HALICH CONGRESS ON MULTIDISCIPLINARY SCIENTIFIC RESEARCH, İstanbul, Turkey, 15 - 16 January 2023, pp.1053-1062
- IV. **Apaydin G., Köksal O.K., Cengiz E., Tiraşoğlu E., Baltaş H., Karabulut K., "Assessment of Natural Radioactivity and Radiological Risk of Sediment Samples in Karacaören II Dam Lake, Isparta/Turkey", TRABZON, TÜRKİYE, 12-14 Eylül 2018, pp.53-53**  
APAYDIN G., KÖKSAL O. K., CENGİZ E., TIRAŞOĞLU E., BALTAŞ H., KARABULUT K.  
XI. International Conference on Nuclear Structure Properties, 12 - 14 September 2018
- V. **Assessment of Natural Radioactivity and Radiological Risk of Sediment Samples in Karacaören II Dam Lake, Isparta/Turkey**

- APAYDIN G., KÖKSAL O. K., Cengiz E., TIRAŞOĞLU E., Baltaş H., Karabulut K.  
XI. International Conference on Nuclear Structure Properties, Trabzon, Turkey, 12 - 14 September 2018, pp.53
- VI. **Determination of the Mass Attenuation Coefficient, Effective Atomic Number and Electron Density for Nano Manganese Hydroxyapatite by using 778-1457 keV Gamma Rays**  
KÖKSAL O. K., Cengiz E., APAYDIN G., TOZAR A., KARAHAN İ. H.  
XI. International Conference on Nuclear Structure Properties, Trabzon, Turkey, 12 - 14 September 2018, pp.52
- VII. **"Radiological assesment of bottom sediment samples from East Black Sea Region, Turkey" , , 24-29 Haziran 2018, pp.307-307**  
APAYDIN G., CENGİZ E., KİRİŞ E., KÖKSAL O. K., APAYDIN A., TIRAŞOĞLU E., BALTAŞ H.  
European Conference on X-Ray Spectrometry, Ljubljana, SLOVENYA, Slovenia, 24 - 29 June 2018, pp.307
- VIII. **Determination of Valance Electronic Structure of Cu and Zn in Cu<sub>1-x</sub>Zn<sub>x</sub> alloy thin films by using K<sub>β</sub>-to-K<sub>α</sub> X-ray Intensity Ratios**  
Cengiz E., KÖKSAL O. K., KARAHAN İ. H., Özdemir R., APAYDIN G.  
European Conference on X-Ray Spectrometry, Ljubljana, Slovenia, 24 - 29 June 2018, pp.59
- IX. **Calculation of the X-Ray Absorption Coefficients for nMnHAp**  
KÖKSAL O. K., APAYDIN G., TOZAR A., ÖZKALAYCI F., KARAHAN İ. H., Cengiz E.  
European Conference on X-Ray Spectrometry, Ljubljana, Slovenia, 24 - 29 June 2018, pp.58
- X. **Radiological assesment of bottom sediment samples from East Black Sea Region, Turkey**  
APAYDIN G., Cengiz E., Kiriş E., KÖKSAL O. K., Apaydın A., TIRAŞOĞLU E., Baltaş H.  
European Conference on X-Ray Spectrometry, Ljubljana, Slovenia, 24 - 29 June 2018, pp.307
- XI. **Elektrokimyasal Depolama Yöntemi ile Üretilen WFeNi İnce Filmlerin Yapısal ve Elektronik Özelliklerinin İncelenmesi**  
SÖĞÜT Ö., CENGİZ E., APAYDIN G., KÖKSAL O. K., KERLİ S.  
III. Uluslararası Mesleki ve Teknik Bilimler Kongresi, 21 - 22 June 2018
- XII. **Nano-Fe<sub>3</sub>O<sub>4</sub> Çöktürülmüş Atık Linter Liflerinden Üretilmiş Duvar Kağıdının Kütle Soğurma Katsayılarının Ölçülmesi**  
SÖĞÜT Ö., APAYDIN G., öz e., KÖKSAL O. K., URUŞ S., TUTUŞ A.  
III. Uluslararası Mesleki ve Teknik Bilimler Kongresi, 21 - 22 June 2018
- XIII. **MEASUREMENTS OF MASS ATTENUATION COEFFICIENTS OF THE WALLPAPERS PRODUCED FROM WASTE LINTER FIBERS PRECIPITATED NANO-Fe<sub>3</sub>O<sub>4</sub>**  
SÖĞÜT Ö., APAYDIN G., Öz E., KÖKSAL O. K., Uruş S., Tutuş A.  
III. Uluslararası Mesleki ve Teknik Bilimler Kongresi, Gaziantep, Turkey, 21 - 22 June 2018, pp.2366-2373
- XIV. **INVESTIGATION OF STRUCTURAL AND ELECTRONIC PROPERTIES OF WFeNi THIN FILMS**  
SÖĞÜT Ö., Cengiz E., APAYDIN G., KÖKSAL O. K., KERLİ S.  
III. Uluslararası Mesleki ve Teknik Bilimler Kongresi, Gaziantep, Turkey, 21 - 22 June 2018, pp.878-882
- XV. **WFENİ İNCE FİMLERİNİ YAPISAL VE ELEKTRONİK ÖZELLİKLERİNİN İNCELENMESİ**  
SÖĞÜT Ö., Cengiz E., APAYDIN G., KÖKSAL O. K., KERLİ S.  
III. Uluslararası Mesleki ve Teknik Bilimler Kongresi, Gaziantep, Turkey, 21 - 22 June 2018, pp.878-882
- XVI. **WFeNi İNCE FİLM ALAŞIMLARININ KB/K<sub>α</sub> KARAKTERİSTİK X-IŞINI ŞİDDET ORANLARININ XRF TEKNİĞİ İLE İNCELENMESİ**  
Reyhanoğlu H., SÖĞÜT Ö., APAYDIN G., KÖKSAL O. K., Cengiz E.  
III. Uluslararası Mesleki ve Teknik Bilimler Kongresi, Gaziantep, Turkey, 21 - 22 June 2018, pp.872-878
- XVII. **Investigation of Radiological Cancer Risk in Baby Clam (Chamelea gallina) and Sediment Samples in the Coastal Area of Sinop Province, Turkey**  
ŞİRİN M., BALTAŞ H., KIRIŞ E., DALGIÇ G., APAYDIN G.  
International Ecology 2018 Symposium, 19 - 23 June 2018
- XVIII. **Determination K Shell Fluorescence Parameters for Titanium, Its Compounds and Complexes By Means of 5.96 keV Photons**  
Koksal O. K., APAYDIN G., BIYIKLIOĞLU Z., BEKİRCAN O., Cengiz E., Karabulut K.  
33rd International Physics Congress of the Turkish-Physical-Society (TPS), Bodrum, Turkey, 6 - 10 September 2017, vol.1935

- XIX. **CALculations of Geometry and Efficiency Yields for XRF System which will be created help of SDD Detector and External X Ray Tube**  
KÖKSAL O. K., APAYDIN G., CENGİZ E.  
EXSA 2017 Autumn School and Workshop on Quantitative Analysis in X Ray Spectrometry, Berlin, Germany, 9 - 12 October 2017, pp.43
- XX. **Assesment of Cu, Zn, As and Pb concentartion in soil samples in the coastal area of sinop province, turlkey**  
BALTAŞ H., gökkbayrak e., KIRIŞ E., ŞİRİN M., YEŞİLKANAT C. M., APAYDIN G.  
2 nd International Science Symposium "Science Festival" (ISS2017), TİFLİS, Georgia, 5 - 08 September 2017
- XXI. **ASSESSMENT OF Cu, Zn, As AND Pb CONCENTRATIONS IN SOIL SAMPLES IN THE COASTAL AREA OF SINOP PROVINCE, TURKEY**  
BALTAŞ H., Gökbayrak E., KIRIŞ E., ŞİRİN M., YEŞİLKANAT C. M., APAYDIN G.  
2 nd International Science Symposium "Science Festival" (ISS2017), TİFLİS, Georgia, 5 - 08 September 2017
- XXII. **Determination of Natural Radioactivity Level of Karacaören II Dam Lake Water (Isparta,TURKEY)**  
Karabulut K., APAYDIN G., CENGİZ E., KÖKSAL O. K., Baltaş H., TIRAŞOĞLU E.  
Türk Fizik Derneği 33. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 10 September 2017, pp.547
- XXIII. **PRODUCTION OF AU AG THIN FILMS AND INVESTIGATION OF SOME XRD AND XRF PARAMETERS**  
akyazı a., SÖĞÜT Ö., APAYDIN G.  
TURKISH PHYSICAL SOCIETY 32nd INTERNATIONAL PHYSICS CONGRESS, 6 - 09 September 2016
- XXIV. **Calculation of K Shell Intensity Ratios and Line Widths of Ti and some of its compounds by means of 5,96 keV energy**  
Köksal O. K., APAYDIN G., Cengiz E., Karabulut K.  
1st International Physics Conference at the Anatolian Peak, IPCAP 2016, Erzurum, Turkey, 25 - 27 February 2016, vol.707
- XXV. **Measurement of the X ray Fluorescence parameters for Ag Cu alloys with the edxrf method**  
Karabulut K., KÖKSAL O. K., APAYDIN G., CENGİZ E., SÖĞÜT Ö.  
1 st International Physics Conference at Anatolian Peak, 25 - 27 February 2016
- XXVI. **Kb/Ka X-ray Intensity Ratios and Fluorescence Yields of Zn Elements in the Phthalocyanine Complexes**  
DOĞAN M., CENGİZ E., DEMİRBAŞ Ü., KÖKSAL O. K., Karabulut K., APAYDIN G., KANTEKİN H., TIRAŞOĞLU E.  
International Physics Conference at Anatolian Peak, Erzurum, Turkey, 25 February - 27 March 2016, pp.33
- XXVII. **MEASUREMENT OF THE X-RAY FLOURESCENCE PARAMETERS FOR Ag-Cu ALLOYS WITH THE EDXRF METHOD**  
Karabulut K., KÖKSAL O. K., APAYDIN G., CENGİZ E., SÖĞÜT Ö.  
International Physics Conference at Anatolian Peak, Erzurum, Turkey, 25 - 27 February 2016, pp.157
- XXVIII. **Radionuclide concentrations in mussels (Mytilus galloprovincialis) and sediments collected from the Eastern Black Sea Region of Turkey**  
Kırış E., BALTAS H., Dalgıç G., Bayrak Y., APAYDIN G., ÇEVİK U.  
LUMIDOZ 9: THE 9TH I NTERNATIONAL CON FERENCE ON LUMINESCENCE AND ESR DOSIMETRY, Antalya, Turkey, 2 - 04 September 2015, pp.22
- XXIX. **MEASUREMENT OF THE VACANCY TRANSITION PROBABILITIES FROM K TO L SHELLS IN BORON-DOPED NiO THIN FILMS**  
Dedeoğlu F., SOGUT O., APAYDIN G., ALVER Ü.  
9th International Physics Conference of the Balkan Physical Union, İstanbul, Turkey, 24 - 27 August 2015, pp.37
- XXX. **K Shell Chemical Shifts on Co Ni Cu and Zn complexes**  
MELTEM S., APAYDIN G., AKSOY C., TIRAŞOĞLU E., KANTEKİN H.  
TFD28 International Physics Congress (2011), 6 - 08 September 2011
- XXXI. **Alloying Effect on the K X ray Fluorescence Parameters of Zn and Cu in Zn-Cu Alloys**  
DOĞAN M., KÖKSAL O. K., CENGİZ E., AYLIKÇI V., APAYDIN G., TIRAŞOĞLU E.  
European Conference on X ray Spectrometry, Bologna, Italy, 15 - 20 July 2014, pp.286
- XXXII. **Ti ve Bileşiklerinin K Kabuğu X-ışını Floresans Verimlerinin 5.95 keV Enerjide Belirlenmesi**

- KÖKSAL O. K., APAYDIN G., CENGİZ E., DOĞAN M., AKSOY C.  
Uluslararası Katılımlı XIII. Ulusal Spektroskopi Kongresi, Burdur, Turkey, 15 - 18 May 2013, pp.69
- XXXIII. **Trace Element accumulation in the moss in Iğdır province of Turkey**  
ÖZDEMİR T., BATAN N., APAYDIN G., CENGİZ E., Mendil D.  
II. Eser Analiz Çalıştayı, Trabzon, Turkey, 27 - 30 June 2012, pp.120-155
- XXXIV. **Tl ve bileşiklerinin Kkabuğu X ışını floresans verimlerinin 5 95 KeV enerjide belirlenmesi**  
KÖKSAL O. K., APAYDIN G., CENGİZ E., DOĞAN M., AKSOY C.  
Mehmet Akif Ersoy Üniversitesi XIII. Ulusal spektroskopi kongresi Burdur, Turkey, 15 - 18 May 2012
- XXXV. **Fluorescence parameters of superconducting Fe<sub>1-x</sub>Te thin films grown by RF sputtering**  
AKSOY C., Speller S., CENGİZ E., Saydam M., APAYDIN G., TIRAŞOĞLU E., Yanmaz E., Grovenor C.  
ICSM 2012 International Conference of Superconductivity and Magnetism, İstanbul, Turkey, 29 April - 04 May 2012, pp.10
- XXXVI. **Chemical Effect on L3 shell Fluorescence yield for Ta and W compounds**  
AKSOY C., TIRAŞOĞLU E., CENGİZ E., MELTEM S., APAYDIN G.  
TFD28 International Physics Congress, 6 - 09 September 2011
- XXXVII. **Chemical Effect on L3 shell Fluorescence yield for Ta and W compounds TFD28**  
AKSOY C., Saydam M., TIRAŞOĞLU E., CENGİZ E., APAYDIN G.  
TFD28 International Physics Congress, Muğla, Turkey, 7 - 11 September 2011, pp.10
- XXXVIII. **Kantekin K-Shell Chemical Shifts on Co, Ni, Cu and Zn complexes**  
Saydam M., AKSOY C., APAYDIN G., TIRAŞOĞLU E., KANTEKİN H.  
TFD28 International Physics Congress, Muğla, Turkey, 7 - 11 September 2011, pp.10
- XXXIX. **Chemical Effect on L shell Cross sections of Ta Compounds at 59.5 keV**  
AKSOY C., TIRAŞOĞLU E., CENGİZ E., MELTEM S., APAYDIN G.  
TFD26 International Physics Congress, 14 - 17 September 2010
- XL. **Chemical effect on L shell cross sections of Ta Compounds Irradiated with 59.5 keV**  
AKSOY C., TIRAŞOĞLU E., Saydam M., CENGİZ E., APAYDIN G.  
TFD 27 International Physics Congress (2010), İstanbul, Turkey, 4 - 08 September 2010, pp.12
- XLI. **Measurements of total atomic attenuation cross sections of Tm, Yb, Lu, Hf, Ta, W, Re and Os elements at 122keV and 136keV**  
KAYA N. S., TIRAŞOĞLU E., APAYDIN G., KOBYA A. I.  
6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.173-174

## Other Publications

- I. **ALLOYING EFFECT ON THE K X-RAY FLUORESCENCE PARAMETERS OF ZN AND CU IN ZN-CU ALLOYS**  
KÖKSAL O. K., DOĞAN M., CENGİZ E., APAYDIN G., Ayhıkcı V., TIRAŞOĞLU E.  
Presentation, pp.251, 2014

## Supported Projects

- ERTUĞRUL M., ALTIN İ., OKUMUŞ H., İÇİN K., ALVER Ü., MOBTEKERİ S., KELEŞ S., TOPAL S., ELÇİN O., WEİ L., et al., Project Supported by Higher Education Institutions, ITC tekniği ile yeni bir ikili perovskit filmin büyütülmesi ve nötron detektörü olarak uygunluğunun araştırılması, 2025 - Continues
- Apaydın G., Çelik N., Çevik U., TUBITAK Project, Eu-152 İçin Gerçek Tesadüf Toplama Düzeltmelerinin Monte Carlo Simülasyonu ile Hesaplanması ve Deneysel Olarak Ölçülmesi, 2025 - 2026
- Apaydın G., Cengiz E., Kanmaz İ., TUBITAK Project, Ytterbium (Yb) Katkılı Mesoporous TiO<sub>2</sub> İnce Filmlerinin Yansıma Önleyici ve Radyasyon Soğurma Özelliklerinin Araştırılması, 2025 - 2026
- Apaydın G., Kanmaz İ., TUBITAK Project, Çok Katmanlı Gd<sub>2</sub>O<sub>3</sub>/WO<sub>3</sub>/MgF<sub>2</sub> İnce Filmlerin Optik Geçirgenlik ve Radyasyon

Soğurma Kapasitelerinin Araştırılması, 2024 - 2026

Şarlı S. B., Apaydın G., Şenlik B., TUBITAK Project, KTÜ Dış Hekimliği Fakültesi Kliniklerinde Elektromanyetik Alan Düzeylerinin Belirlenmesi, 2024 - 2025

Apaydın G., Tüzüner T., Baltaş H., Şirin M., Köksal O. K., Cengiz E., Project Supported by Higher Education Institutions, Farklı Marka Dış Macunlarında Titanyum Dioksit Miktarının ve Kanserojen Riskinin Belirlenmesi, 2023 - 2025

BAYRAM T., YILMAZ A. H., APAYDIN G., BOLAT S., Project Supported by Higher Education Institutions, Yenilikçi Yaklaşımla Nükleer ve Modern Fizik Lisans Laboratuvarlarının Geliştirilmesi, 2021 - 2024

Apaydın G., Cengiz E., Şirin M., Yeşilkanat C. M., Project Supported by Higher Education Institutions, Alanya'nın Kıyı Şeridi Boyunca Sediment Örneklerinde Ağır Metal Kirliliğinin Belirlenmesi, 2022 - 2023

Bebek G., Apaydın G., Ayvacı H. Ş., TUBITAK Project, Öğretmenler Yaratıcı Modeller Tasarlıyor-IV, 2022 - 2022

Apaydın G., Ayvacı H. Ş., Sevim S., Ürey M., TUBITAK Project, Öğretmenler Yaratıcı Modeller Tasarlıyor-III, 2021 - 2021

Apaydın G., Ayvacı H. Ş., TUBITAK Project, Öğretmenler Yaratıcı Modeller Tasarlıyor-II , 2018 - 2018

Apaydın G., Bulut V. N., Eyüboğlu Y., TUBITAK Project, Karacaören II Baraj Gölü Sedimet, Balık ve Su Örneklerinde Metal Kirliliği ile Radyoaktivite Seviyelerinin Belirlenmesi, 2016 - 2018

Apaydın G., Baltaş H., Dalgıç G., Şirin M., Kırış E., Project Supported by Higher Education Institutions, Sinop İli Kıyıda Alanda Beyaz Kum Midyesi (Chamelea gallina) Örneklerinde Radyolojik Kanser Riskinin Araştırılması, 2016 - 2017

Apaydın G., Ayaydın A., Ürey M., Ayvacı H. Ş., TUBITAK Project, Öğretmenler Yaratıcı Modeller Tasarlıyor, 2016 - 2016

Apaydın G., Baltaş H., TUBITAK Project, Doğu Karadeniz Bölgesi denizel ortamın ağır metal kirliliğinin tespiti ve midye türünde bazı ağır metallerin adsorbsiyon kapasitelerinin ortaya konması, 2013 - 2015

Apaydın G., Yazıcı K., TUBITAK Project, Iğdır ili liken ve karayosunu florası ile ekolojisi, 2009 - 2012

Apaydın G., Yılmaz F., TUBITAK Project, Köyceğiz Gölü Lagün Sisteminde Metal Kirliliği Kaynaklarının, Organizmalardaki Kalıntı Miktarlarının Belirlenmesi ve Metal Kirliliği Denetimi (MEKİD) için Bir Yönetim Modelinin Geliştirilmesi, 2009 - 2011

APAYDIN G., Project Supported by Higher Education Institutions, Platin Bileşik Ve Komplekslerine Ait X Işını Floresans Parametrelerinin Edxrf Tekniği İle İncelenmesi, 2009 - 2011

## Activities in Scientific Journals

ALKÜ Fen Bilimleri Dergisi, Committee Member, 2018 - Continues

Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Advisory Committee Member, 2017 - Continues

## Memberships / Tasks in Scientific Organizations

European X-ray Spectrometry Association (EXSA), Member, 2008 - Continues

## Peer Reviews in Scientific Publications

SPECTROSCOPY LETTERS, SCI Journal, September 2021

SPECTROSCOPY LETTERS, SCI Journal, August 2021

PROGRESS IN NUCLEAR ENERGY, SCI Journal, May 2020

Bartın University International Journal of Natural And Applied Sciences (JONAS), National Scientific Refreed Journal, December 2019

Bulletins de l'Institut Scientifique, Other Indexed Journal, October 2019

Radiation Physics and Chemistry, SCI Journal, September 2019

Cumhuriyet Science Journal , National Scientific Refreed Journal, January 2019

ALKU Journal of Science, National Scientific Refreed Journal, December 2018

Marine Pollution Bulletin, SCI Journal, January 2018

Spectroscopy Letters, SCI Journal, January 2018

Journal of Molecular Structure, SCI Journal, January 2017  
X-ray Spectrometry, SCI Journal, January 2017  
Spectroscopy and Spectral Analysis, SCI Journal, January 2017  
Adiyaman University Journal of Science, National Scientific Refreed Journal, January 2017  
Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, January 2016  
Marine Pollution Bulletin, SCI Journal, January 2016  
Arabian Journal of Geosciences, Other Indexed Journal, January 2016  
X-ray Spectrometry, SCI Journal, January 2015  
Canadian Journal of Physics, SCI Journal, January 2014  
International Journal of Physical Sciences, Other Indexed Journal, January 2013  
Spectroscopy Letters, SCI Journal, January 2013  
International Journal of Physical Sciences, SCI Journal, January 2012

### **Scientific Research / Working Group Memberships**

Ca18212-Molecular Dynamics In The Gas Phase, Stokholm University, Sweden,  
<https://www.cost.eu/actions/CA18212/#tabs|Name:overview>, 2020 - 2024  
Ca18130-European Network For Chemical Elemental Analysis By Total Reflection X-Ray Fluorescenc, INSTM Consorzio  
Interuniversitario Nazionale per la Scienza e Tecnologia dei Materiali, Italy,  
<https://www.cost.eu/actions/CA18130/#tabs|Name:overview>, 2020 - 2023

### **Metrics**

Publication: 128  
Citation (WoS): 936  
Citation (Scopus): 973  
H-Index (WoS): 19  
H-Index (Scopus): 19