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Education Information

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, Turkey 1998 - 1998

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, Turkey 1990 - 1990

Undergraduate, Ataturk University, Kâzım Karabekir Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi, Turkey 1982 - 1982

Foreign Languages

English, B1 Intermediate

Research Areas

Physics, Atomic and Molecular Physics, Theory of Atoms and Molecules, Nuclear physics, Radioactive decay and in-beam spectroscopy, Natural Sciences

Academic Titles / Tasks

Professor, Karadeniz Technical University, Fen Fakültesi, Fizik, 2006 - Continues

Assistant Professor, Karadeniz Technical University, Fen Fakültesi, Fizik, 1994 - 2020

Associate Professor, Karadeniz Technical University, Fen Fakültesi, Fizik, 2000 - 2006

Published journal articles indexed by SCI, SSCI, and AHCI

- Demonstration of better superconducting performance in a solder with low lead content**
Aksoy C., Cakir B., Koparan E. T., Simsek C., Tıraşoğlu E., Speller S., Grovenor C. R. M., Küçükömeroğlu T., Yanmaz E.
SUPERCONDUCTOR SCIENCE & TECHNOLOGY, vol.36, no.1, 2023 (SCI-Expanded)
- 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., ŞİRİN M., Cengiz E., Koksal O. K., BALTAŞ H., TIRAŞOĞLU E.

- III. **Determination of L-shell fluorescence parameters of thallium in thallium compounds**
Cengiz E., TIRAŞOĞLU E., APAYDIN G., KOKSAL O. K.
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- IV. **Determination of trace elements in cabbage (*Brassica oleracea* L.var.acephale) and its grown soil at the Black sea region in Turkey**
AKSOY C., KABAĞLU H., ŞAHİN TİMAR Z., BİRAY E., AKSOY H., TIRAŞOĞLU E.
Spectroscopy Letters, vol.53, pp.671-684, 2020 (SCI-Expanded)
- V. **Elemental Analysis of Tea Leaves (*Camellia Sinensis*) and Their Own Soils at Eastern Black Sea Region in Turkey**
AKSOY C., KABAĞLU H., APAYDIN G., SAFI A., TIRASOĞLU E.
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- VI. **The semi-empirical determination of KLL Auger, K-alpha 1 and K-alpha 2 X-ray line widths for sulfur atom in new 1,2,4-triazol compounds containing thiophene ring**
AYLIKCI N. K., SANCAC K., AYLIKCI V., TIRASOĞLU E., UNLUER D., DEPCI T.
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- VII. **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)
- VIII. **Structure Effect on K Shell Fluorescence Parameters at Bis-4-Bromobenzyl-1, 2, 4-Triazol-3-Ones**
Aylikci V., ÜNVER Y., Aylikci N. K., TIRAŞOĞLU E., SANCAC K., LAGAP Z.
SPECTROSCOPY AND SPECTRAL ANALYSIS, vol.36, no.12, pp.4120-4124, 2016 (SCI-Expanded)
- IX. **Measurement of L-III Subshell Absorption Jump Parameters of Hafnium**
CENGİZ E., SARITAŞ N., DOĞAN M., KÖKSAL O. K., KARABULUT K., APAYDIN G., TIRAŞOĞLU E.
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- X. **L shell X-ray fluorescence parameters of Pb in phthalocyanine complexes**
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- XI. **The fluorescence parameters of Zr and Sb compounds**
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- XII. **K shell X-ray fluorescence parameters of Co, Ni, Cu and Zn in phthalocyanine complexes**
Dogan M., Cengiz E., Dilber G., Nas A., Tıraşoğlu E., Kantekin H.
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- XIII. **Alloying effect on K-shell fluorescence parameters of porous NiTi shape memory alloys**
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- XIV. **Traces of Defects in the Electronic Structure of Porous Ni-Ti Alloys**
Ozkendir O. M., Cengiz E., TIRAŞOĞLU E., Kaya M., Karahan I. H., Orhan N.
JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY, vol.29, no.4, pp.344-348, 2013 (SCI-Expanded)
- XV. **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., SANCAC K., KAHOU A., DOĞAN M., CENGİZ E., et al.
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- XVI. **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., CENGİZ E., ALASALVAR C., TIRAŞOĞLU E., APAYDIN G.
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- XVII. **Calculation of vacancy transfer probabilities from K to L shell using the X-ray fluorescence**

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- XVIII. 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.
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- XIX. 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.
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- XX. Effect of pH treatment on K-shell x-ray intensity ratios and K-shell x-ray-production cross sections in ZnCo alloys**
Aylikci N. K., Aylikci V., Kahoul A., TIRAŞOĞLU E., Karahan I. H., Cengiz E.
PHYSICAL REVIEW A, vol.84, no.4, 2011 (SCI-Expanded)
- XXI. 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.
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- XXII. K-shell X-ray fluorescence parameters of some heavy elements and compounds**
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- XXIII. Alloying effect on K X-ray intensity ratios, K X-ray production cross-sections and radiative Auger ratios in superalloys constitute from Al, Ni and Mo elements**
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- XXIV. Investigation on L-shell X-ray fluorescence parameters for heavy elements and compounds**
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- XXV. 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)
- XXVI. Analysis of Metal Contents of Seaweed (*Ulva lactuca*) from Istanbul, Turkey by EDXRF**
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TURKISH JOURNAL OF FISHERIES AND AQUATIC SCIENCES, vol.10, no.2, pp.215-220, 2010 (SCI-Expanded)
- XXVII. 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.
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- XXVIII. 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.
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- XXIX. 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)
- XXX. 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)
- XXXI. 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)
- XXXII. **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)
- XXXIII. **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.
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- XXXIV. **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.
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- XXXV. **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.
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- XXXVI. **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.
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- XXXVII. **Chemical effects on K and L shell production cross sections and transfer probabilities in Nb compounds**
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- XXXVIII. **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.
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- XXXIX. **Determination of K shell X-ray intensity ratios for some heavy elements**
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- XL. **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)
- XLI. **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)
- XLII. **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.
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- XLIII. **Measurement of angular dependence of M X-ray production cross-sections in Re, Bi and U at 5.96 keV**
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- XLIV. **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)

- XLV. **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., Aylikçi 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)
- XLVI. **Chemical effect on the K and L shell intensity ratios of Hf compounds**
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PHYSICA SCRIPTA, vol.76, no.1, pp.31-36, 2007 (SCI-Expanded)
- XLVII. **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)
- XLVIII. **Measurement of K shell fluorescence cross-section of Ca and K compounds**
Tirasoglu E., Sogut O., TEKBIYIK A., Apaydin G., ERTUGRUL B.
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- XLIX. **Elemental concentration analysis in some plant samples by EDXRF at Trabzon**
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- LI. **Determination of probabilities of vacancy transfer from K to L shell using K X-ray intensity ratios**
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- LII. **Determination of trace elements in cole (Brassica oleraceae var. acephale) at Trabzon region in Turkey**
TIRASOGLU E., Cevik U., ERTUGRAL B., APAYDIN G., BALTAS H., ERTUGRUL M.
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- LIII. **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**
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- LIV. **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)
- LV. **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)
- LVI. **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**
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- LVII. **Measurement of diffusion coefficients of Ag in YBa2Cu3O7 by the EDXRF technique**
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- LVIII. **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.
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- LIX. **Measurement of K to L shell vacancy transfer probabilities for the elements $52 \leq Z \leq 68$**
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- LX. **Measurements of L-I, L-alpha, L-eta, L-beta and L-gamma X-ray fluorescence cross-sections in $70 \leq Z \leq 92$ elements excited by 59.543 keV photons**
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- LXI. **Levels of cesium radionuclides in lichens and mosses from the province of Ordu in the Eastern Black Sea area of Turkey**
SAKA A., Cevik U., BACAŞIZ E., KOPYA A., TIRASOGLU E.
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Articles Published in Other Journals

- I. **Analysis the Metal Composition of Fish Samples Collected From Karacaören II Dam Lake**
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- II. **Exploration of Seasonal Metal Pollution in Karacaören II Dam Lake Sediment Samples using X-ray Fluorescence Method**
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- III. **Analysis of Ca, K and Fe Element in Some Medicinal and Aromatic Plants and Fungal Specimens Growing in Ordu (Mesudiye ve Kabadüz) Plateaus**
AKSOY C., AKSOY H., TIRAŞOĞLU E., ÜÇLER A. Ö.
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- IV. **M Shell Fluorescence Parameters of Pt, Au and Tl Compounds with Oxygen and Bromide**
KÜP AYLKCI N., AYLKCI V., TIRAŞOĞLU E., DEPCİ T.
Adıyaman University Journal of Science, vol.9, no.2, pp.274-279, 2019 (Peer-Reviewed Journal)
- V. **Assessment of natural radioactivity and radiological risk of sediment samples in Karacaören II dam Lake, Isparta/Turkey**
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- VI. **The Determination of M Shell Average Fluorescence Parameters From 70Yb to 92U and of Hg, Pb and Bi Compounds Using 5.96 keV Photons**
KÜP AYLKCI N., Kahoul A., AYLKCI V., TIRAŞOĞLU E.
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- VII. **Süperiletken FeySe1-xTex İnce Filmlerin Floresans Şiddet Oranları**
AKSOY C., TIRAŞOĞLU E., Speller S., Grovenor C.
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- VIII. **The Fluorescence Intensity Ratios of Superconducting FeySe1-XTeX Thin Films**
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- IX. **Elemental content profiles in propolis from several cities of Turkey**
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- X. **Elemental analysis in the white cabbage in Gümüşhane, Turkey**
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- XI. **Chemical effect on L shell cross sections of Ta Compounds Irradiated with 59.5 keV Photons**
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Balkan Physics Letters, vol.19, pp.175-179, 2011 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **NATURAL RADIOACTIVITY TESTING ON LAKE FISH SAMPLES FROM KARACAÖREN II DAM LAKE**
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- II. **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
- III. **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
- IV. **K-Shell X-Ray Fluorescence Parameters of Superconducting Ag added MgTi0.06B2 bulk samples**
Aksoy C., Tiraşoğlu E., Öztürk K., Savaşkan B., Güner B., Taylan Koparan E.
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- V. **"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.
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- VI. **Radiological assesment of bottom sediment samples from East Black Sea Region, Turkey**
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- VII. **FLUORESCENCE PARAMETERS OF SUPERCONDUCTING SNINBI LEAD FREE SOLDERS**
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- VIII. **Determination of Natural Radioactivity Level of Karacaören II Dam Lake Water (Isparta,TURKEY)**
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- IX. **ELEMENTAL ANALYSIS IN CHILI PEPPERS OF GAZIANTEP REGION, TURKEY**
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- X. **Chemical Components Profiles in Propolis from Several Cities of Turkey**
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- XI. **THE RATIOS OF EMISSION PROBABILITIES OF AUGER ELECTRONS FOR 3d TRANSITION ELEMENTS AT 59.5 keV K.KUNDEYI , N.K. AYLIKCI, E. TIRASOGLU, A. KAHOUL AND V. AYLIKCI 62**
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- XIII. **K Shell Chemical Shifts on Co Ni Cu and Zn complexes**
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- XIV. **Alloying Effect on the K X ray Fluorescence Parameters of Zn and Cu in Zn-Cu Alloys**
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- XV. **Measurement of Mass Attenuation Coefficients for MgB₂ Superconductor using X-ray Energies**
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- XVI. **Attenuation coefficient of superconducting Fe_ySe_{1-x}Te_x thin films**
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- XXI. **Fluorescence parameters of superconducting Fe_ySe_{1-x}Te_x thin films grown by RF sputtering**
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- XXIII. **Kantekin K-Shell Chemical Shifts on Co, Ni, Cu and Zn complexes**
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- XXV. **Chemical Effect on L shell Cross sections of Ta Compounds at 59.5 keV**
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- XXVII. **Chemical effect on K shell cross-section of Cu compounds at 59.5 keV**
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- XXIX. **Doğu Karadeniz Bölgesi İçme Sularında 222Rn Analizi** Nevzat Damla
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- XXX. **Gross alpha and Gross beta Activities in Tap Waters of Coast Side of Trabzon**
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Supported Projects

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Memberships / Tasks in Scientific Organizations

TÜRK FİZİK DERNEĞİ, Member, 1988 - Continues, Turkey

Metrics

Publication: 104

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Non Academic Experience

National Education Delopment Project 1997 USA