

## Prof. Rıdvan DURAK

### Personal Information

**Office Phone:** [+90 442 231 4162](tel:+904422314162)

**Fax Phone:** [+90 442 231 4109](tel:+904422314109)

**Email:** [rdurak@atauni.edu.tr](mailto:rdurak@atauni.edu.tr)

**Web:** <https://avesis.atauni.edu.tr/rdurak>

**Address:** Atatürk Üniversitesi Fen Fakültesi Fizik Bölümü 25240 Erzurum /Turkey

### International Researcher IDs

ScholarID: 6YIi7hkAAAAJ

ORCID: 0000-0002-3935-176X

Publons / Web Of Science ResearcherID: I-3387-2014

ScopusID: 7004699177

Yoksis Researcher ID: 2006

### Biography

Prof. Dr. Rıdvan Durak is a faculty member in the Physics Department of the Faculty of Science at Atatürk University where he has been a faculty member since 1987. Professor Dr. Rıdvan Durak is still the dean of the Faculty of Arts and Sciences at Ağrı İbrahim Çeçen University.

Durak completed his doctorate at Atatürk University. His research interests include X-ray and Gamma-rays, non-destructive sample analysis (qualitative and quantitative analysis), radiation detection, radiation dosimetry, X-ray fluorescence, radiation shielding, atomic parameters (cross sections, yields, mixing ratios, oscillator intensity, etc.). measurements.

In recent years, researches on the design and applicability of today's efficient, multifunctional and non-toxic light and high performance composite radiation shielding materials. She is still working as an editor for [Universal Journal of Materials Science](#) (USA), [Journal of Physics](#) (Canada) and [Eastern Anatolian Journal of Science](#) (Turkey).

### Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Fizik, Atom Ve Molekül Fiziği, Turkey 1990 - 1994

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Fizik, Atom Ve Molekül Fiziği, Turkey 1988 - 1990

Undergraduate, Ataturk University, Fen Edebiyat Fakültesi, Fizik, Turkey 1980 - 1984

### Foreign Languages

English, B1 Intermediate

### Dissertations

Doctorate, XRS'le yapılan analizlerde gözlenen temel sayma,escape,pile-up, satellite ve saçılma piklerinin incelenmesi, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Fizik, Atom Ve Molekül Fiziği, 1993

Postgraduate, Bazı alfa-pikler ve ağır elementler bölgesindeki KB1,3,5-piklerinin spektral analizleri, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Fizik, Atom Ve Molekül Fiziği, 1990

## Research Areas

Physics, Atomic and Molecular Physics, Atomic Spectra and Photon Interactions, Atomic and Molecular Interactions, Interdisciplinary Physics and Related Science and Technology Areas, Materials Science, Nuclear physics, Natural Sciences

## Academic Titles / Tasks

Professor, Ataturk University, Fen Fakültesi, Fizik, 1987 - Continues

## Academic and Administrative Experience

Dean, Agri Ibrahim Cecen University, Faculty Of Arts And Sciences, 2020 - 2023  
ÜAK Member, Yükseköğretim Kurumu, 2017 - 2021  
Dean, Agri Ibrahim Cecen University, Faculty Of Science And Letters, 2017 - 2020  
Atatürk Üniversitesi, Fen Fakültesi, Fizik, 2015 - 2017  
Head of Department, Ataturk University, Fen Fakültesi, Fizik, 2013 - 2017  
Atatürk Üniversitesi, Fen Fakültesi, Fizik, 2009 - 2017  
Atatürk Üniversitesi, Oltu Yer Bilimleri Fakültesi, 2010 - 2016  
Atatürk Üniversitesi, Fen Fakültesi, Fizik, 2012 - 2015  
Atatürk Üniversitesi, Yüksek Enerji Ve Plazma Fiziği Abd , 2009 - 2012  
Atatürk Üniversitesi, Pasinler Myo , 2009 - 2012  
Atatürk Üniversitesi, Tercan Myo, 2001 - 2007  
Yüzüncü Yıl Üniversitesi, Tercan Myo, Fizik, 1994 - 1996

## Courses

Adli fizik (Forensic Physics), Postgraduate, 2023 - 2024  
Fizik-II, Undergraduate, 2020 - 2021  
Fizik, Undergraduate, 2020 - 2021  
Genel Fizik, Undergraduate, 2020 - 2021  
Fizik-I, Undergraduate, 2020 - 2021  
Biyofizik, Undergraduate, 2020 - 2021  
Akademik ve Bilimsel Sunu Teknikleri, Postgraduate, 2017 - 2018  
Spektroskopi, Undergraduate, 2016 - 2017  
Fizik-II, Undergraduate, 2016 - 2017  
Fizik-I (Mekanik), Undergraduate, 2016 - 2017  
X-ışınları ve Uygulamaları, Postgraduate, 2016 - 2017  
Radyolojik Fizik ve Radyasyon Dozimetriye Giriş, Doctorate, 2015 - 2016  
Atomik ve Moleküler Spektroskopi, Postgraduate, 2013 - 2014  
Moleküler Fizik, Undergraduate, 2012 - 2013  
Rölativite Teorisi, Undergraduate, 2012 - 2013  
Atom Fiziği, Undergraduate, 2012 - 2013  
X-Işını Fiziği, Postgraduate, 2012 - 2013  
Nükleer Reaktör Fiziği, Undergraduate, 2012 - 2013  
X-ışını Floresans Spektroskopi-I, Postgraduate, 2008 - 2009

Dalgaboyu Ayırımı X-Işını Floresans Spektrometri, Postgraduate, 2007 - 2008

Elektromanyetik Teori, Undergraduate, 2001 - 2002

Fizikte Matematik Yöntemler, Undergraduate, 2000 - 2001

## Advising Theses

Durak R., RADYASYON ZIRHLAMA İÇİN YENİ, HAFİF, KOMPOZİT MALZEMELER, Doctorate, A.ARAZ(Student), 2020

Durak R., Morse potansiyeli içinde etkileşen n elektronlu kuantum nokta yapıların taban durum özelliklerinin sınırlandırma şiddetine bağlı olarak değişiminin incelenmesi, Postgraduate, R.AYDIN(Student), 2020

DURAK R., XRF ile ilgili atomik parametreler ve K tabakası osilatör şiddetlerinin belirlenmesi, Doctorate, M.Fatih(Student), 2017

DURAK R., XRF ve ICP-OES teknikleri ile van gölü'nün su ve sedimentinin eser element analizi, Doctorate, F.Akdemir(Student), 2014

DURAK R., Farklı tipte kanserli ve sağlıklı akciğer dokularının ICP-OES tekniği ile eser element konsantrasyonlarının tayini: Evre, cinsiyet ve yaşa bağlılık, Postgraduate, A.Araz(Student), 2014

DURAK R., Edxrf spektrometre ile bazı elementlerin k tabakası ve LIII alttabakası soğurma sıçrama faktörlerinin doğrudan uyarma ve geçiş geometrileriyle ve bazı Ce, Sm ve Gd bileşiklerinin soğurma parametrelerinin belirlenmesi, Doctorate, F.Akman(Student), 2013

DURAK R., Atomik iç tabaka geçişlerinde manyetik kvadrupol - elektrik dipol (M2/E1) katkı oranları ve açılma dağılım parametrelerinin ölçülmesi, Doctorate, M.Recep(Student), 2011

DURAK R., Atom numarası 67?Z?83 aralığındaki bazı elementler için I alt tabaka seviye genişlikleri ve ışımaya boşluk geçiş ihtimaliyetlerinin ölçülmesi, Postgraduate, M.Fatih(Student), 2011

DURAK R., Şeker hastalarının kan serumundaki elementlerin X-ışını floresans analizi, Postgraduate, Y.Gülen(Student), 2005

DURAK R., Foton uyarımlı L3-alttabakasından M-tabakasına boşluk geçiş ihtimallerinin ve flüoresans x-ışınlarının açılma dağılımının ölçülmesi ve anizotropi parametrelerinin tayini, Doctorate, Y.Özdemir(Student), 2002

DURAK R., 60 KeV'lik fotonlarla uyarılmış Z=24-92 aralığındaki elementlerin K ve LX ışını floresans tesir kesitleri ve floresans verimleri, Postgraduate, Y.Özdemir(Student), 1998

## Jury Memberships

Associate Professor Exam, Doçentlik Sınav Jürisi, ÜAK, February, 2017

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

- I. **Nuclear shielding characteristics of newly developed composite metal foams: Role of CeO<sub>2</sub> addition and foam type**  
Araz A., Kavaz E., Durak R., Akdemir F.  
MATERIALS CHEMISTRY AND PHYSICS, vol.1, pp.1-12, 2024 (SCI-Expanded)
- II. **Neutron and photon shielding competences of aluminum open-cell foams filled with different epoxy mixtures: An experimental study**  
Araz A., Kavaz E., Durak R.  
Radiation Physics and Chemistry, vol.182, 2021 (SCI-Expanded)
- III. **Determination of some fluorescence parameters of L sub-shells for Th and U at 59.54 keV photon energy**  
Turhan M. F., Akman F., Kaçal M. R., DURAK R.  
Applied Radiation and Isotopes, vol.157, 2020 (SCI-Expanded)
- IV. **Chemical effect on K shell X-ray fluorescence parameters for some Mn and Ni compounds**

- Turhan M. F., Turşucu A., Akman F., Akdemir F., DURAK R.  
Radiation Physics and Chemistry, vol.168, 2020 (SCI-Expanded)
- V. **Comprehensive study on evaluation of shielding parameters of selected soils by gamma and X-rays transmission in the range 13.94–88.04 keV using WinXCom and FFAST programs**  
Akman F., Turan V., Sayyed M., Akdemir F., Kaçal M., DURAK R., Zaid M.  
Results in Physics, vol.15, 2019 (SCI-Expanded)
- VI. **Determination of some selected absorption parameters for Cd, La and Ce elements**  
Turhan M. F., DURAK R., Akman F., Kaçal M. R., ARAZ A.  
Radiation Physics and Chemistry, vol.156, pp.101-108, 2019 (SCI-Expanded)
- VII. **Chemical effect on the K shell absorption parameters of some selected cerium compounds**  
Akman F., Kacal M. R., DURAK R.  
JOURNAL OF INSTRUMENTATION, vol.11, 2016 (SCI-Expanded)
- VIII. **Study of absorption parameters around the K edge for selected compounds of Gd**  
Akman F., DURAK R., Kacal M., Bezgin F.  
X-Ray Spectrometry, vol.45, no.2, pp.103-110, 2016 (SCI-Expanded)
- IX. **The excitation probabilities of  $K\alpha, \beta$  and  $L\alpha_{1,2}$  for some elements in  $56 \leq Z \leq 68$  at 59.54 keV**  
Akman F., Kaçal M., DURAK R.  
Radiation Physics and Chemistry, vol.119, pp.29-36, 2016 (SCI-Expanded)
- X. **Determination of  $K\alpha, \beta$  excitation factors in thin target for selected elements from Y to Te at 59.54 keV excitation energy**  
Akman F., AKDEMİR F., DURAK R., Kaçal M., AKSAKAL Ö., ARAZ A.  
Applied Radiation and Isotopes, vol.107, pp.366-371, 2016 (SCI-Expanded)
- XI. **Studies on effective atomic numbers, electron densities from mass attenuation coefficients near the K edge in some samarium compounds**  
Akman F., DURAK R., Turhan M., Kaçal M.  
Applied Radiation and Isotopes, vol.101, pp.107-113, 2015 (SCI-Expanded)
- XII. **Determination of K-shell absorption jump factors and jump ratios for La<sub>2</sub>O<sub>3</sub>, Ce and Gd using two different methods**  
Akman F., DURAK R., Kaçal M. R., Turhan M. F., AKDEMİR F.  
Radiation Physics and Chemistry, vol.107, pp.75-81, 2015 (SCI-Expanded)
- XIII. **Kinematic coefficient ratios, anisotropy parameters, and polarization degrees of L<sub>3</sub> X-ray transitions of Bi, Pb, Ta, Lu, and Yb**  
Kaçal M., DURAK R., Akman F.  
Canadian Journal of Physics, vol.93, no.10, pp.1199-1206, 2015 (SCI-Expanded)
- XIV. **Measurement of Li X-ray fluorescence production cross sections and intensity ratios of some elements at 59.54 keV**  
Akman F., DURAK R., Kaçal M., Turhan M.  
Canadian Journal of Physics, vol.93, no.10, pp.1057-1066, 2015 (SCI-Expanded)
- XV. **Determination of K shell absorption parameters for some lanthanides using the X-ray attenuation method**  
Akman F., DURAK R., Kaçal M.  
Canadian Journal of Physics, vol.93, no.12, pp.1532-1540, 2015 (SCI-Expanded)
- XVI. **Determination of L X-ray fluorescence parameters for Ho, Lu, W, Hg and Bi**  
Turhan M., DURAK R., Akman F.  
Applied Radiation and Isotopes, vol.89, pp.151-158, 2014 (SCI-Expanded)
- XVII. **Measurement of L subshell fluorescence yields for high-Z elements excited by 22.6 keV photons**  
Kacal M., Han I., Akman F., DURAK R.  
Journal of Quantitative Spectroscopy and Radiative Transfer, vol.113, no.5, pp.373-381, 2012 (SCI-Expanded)
- XVIII. **L-shell polarization and alignment of heavy elements induced by 59.54 keV photons**  
Özdemir Y., Durak R., Kaçal M. R., Kurudirek M.  
Applied Radiation And Isotopes, vol.69, pp.991-995, 2011 (SCI-Expanded)

- XIX. **L-shell polarization and alignment of heavy elements induced by 59.54keV photons**  
ÖZDEMİR Y., DURAK R., KACAL M., KURUDİREK M.  
Applied Radiation and Isotopes, vol.69, no.7, pp.991-995, 2011 (SCI-Expanded)
- XX. **Measurement of L subshell fluorescence cross sections and intensity ratios of heavy elements at 22.6keV**  
KACAL M., DURAK R., Akman F., TURHAN M., Han I.  
Radiation Physics and Chemistry, vol.80, no.6, pp.692-700, 2011 (SCI-Expanded)
- XXI. **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)
- XXII. **Quantitative EDXRF analysis of Ca, K, Mn and Na in normal and pathological adult-human teeth**  
ÖZDEMİR Y., BAYINDIR Y. Z., DURNA D., DURAK R.  
Journal of X-Ray Science and Technology, vol.18, no.2, pp.193-199, 2010 (SCI-Expanded)
- XXIII. **Determination of trace element levels in human blood serum from patients with type II diabetes using WDXRF technique: A comparative study**  
DURAK R., GÜLEN Y., KURUDİREK M., KAÇAL M. R., ÇAPOĞLU İ.  
JOURNAL OF X-RAY SCIENCE AND TECHNOLOGY, vol.18, no.2, pp.111-120, 2010 (SCI-Expanded)
- XXIV. **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)
- XXV. **Angular dependence from L3-subshell to M-shell vacancy transfer probabilities for heavy elements using EDXRF technique**  
ÖZDEMİR Y., DURAK R.  
Annals of Nuclear Energy, vol.35, no.7, pp.1335-1339, 2008 (SCI-Expanded)
- XXVI. **Comparative quantitative analysis of sodium, magnesium, potassium and calcium in healthy cuttlefish backbone and non-pathological human elbow bone**  
YILDIRIM Ö. S., Okumus Z., KIZILKAYA M., ÖZDEMİR Y., DURAK R., OKUR A.  
CANADIAN JOURNAL OF ANALYTICAL SCIENCES AND SPECTROSCOPY, vol.52, no.5, pp.270-275, 2007 (SCI-Expanded)
- XXVII. **Measurement of angular dependence of M X-ray production differential cross-sections in heavy elements at 5.96 keV**  
DURAK R.  
Canadian Journal of Analytical Sciences and Spectroscopy, vol.51, no.2, pp.67-73, 2006 (SCI-Expanded)
- XXVIII. **Measurement of angular dependence from L3-subshell to M-shell vacancy transfer probabilities for the elements in the atomic region  $71 \leq Z \leq 78$**   
ÖZDEMİR Y., DURAK R., Esmer K., ERTUĞRUL M.  
Journal of Quantitative Spectroscopy and Radiative Transfer, vol.90, no.2, pp.161-168, 2005 (SCI-Expanded)
- XXIX. **Qualitative and quantitative analysis of sciatic nerves in adult rats by repeated intraperitoneal administration of paclitaxel (taxol) using a radioisotope EDXRF technique**  
Iyigün I., ÖZDEMİR Y., DURAK R.  
Instrumentation Science and Technology, vol.31, no.3, pp.295-303, 2003 (SCI-Expanded)
- XXX. **Qualitative and quantitative analysis of pathological and non-pathological human bone using radioisotope X-ray fluorescence technique**  
OKUR A., ÖZDEMİR Y., DURAK R.  
Journal of Quantitative Spectroscopy and Radiative Transfer, vol.78, no.1, pp.55-60, 2003 (SCI-Expanded)
- XXXI. **L-subshell fluorescence yields ( $2w_1$ ,  $\omega_2$  and  $\omega_3$ ) for elements in the atomic range  $55 \leq Z \leq 68$  with a Si(Li) detector**  
ÖZDEMİR Y., DURAK R.  
Journal of Quantitative Spectroscopy and Radiative Transfer, vol.77, no.1, pp.95-103, 2003 (SCI-Expanded)

- XXXII. **Determination of concentrations of human bone around titanium and stainless steel with an energy-dispersive x-ray fluorescence technique**  
ÖZDEMİR Y., Okur A., Tath L., DURAK R.  
Instrumentation Science and Technology, vol.31, no.1, pp.77-84, 2003 (SCI-Expanded)
- XXXIII. **K-shell X-ray production cross-sections and fluorescence yields in some medium-Z elements**  
ÖZDEMİR Y., DURAK R., ÖZ E.  
Radiation Physics and Chemistry, vol.65, no.3, pp.199-204, 2002 (SCI-Expanded)
- XXXIV. **Measurement of K alpha to L alpha and K beta to L beta intensity ratios of seven elements in the atomic number range  $56 \leq Z \leq 66$  using photoionization at 59.54 keV**  
Durak R., Ozdemir Y., Sahin Y.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.70, no.3, pp.333-340, 2001 (SCI-Expanded)
- XXXV. **Measurement of  $L\alpha/L\ell$ ,  $L\alpha/L\beta$  and  $L\alpha/L\gamma$  X-ray intensity ratios for elements in the atomic range  $57 \leq Z \leq 92$  using radioisotope X-ray fluorescence**  
DURAK R., ÖZDEMİR Y.  
Physics Letters, Section A: General, Atomic and Solid State Physics, vol.284, no.1, pp.43-48, 2001 (SCI-Expanded)
- XXXVI. **Photon-induced M-shell X-ray production cross-sections and fluorescence yields in heavy elements at 5.96 keV**  
DURAK R., ÖZDEMİR Y.  
Spectrochimica Acta - Part B Atomic Spectroscopy, vol.56, no.4, pp.455-464, 2001 (SCI-Expanded)
- XXXVII. **Measurement of K-shell fluorescence cross-sections and yields of 14 elements in the atomic number range  $25 \leq Z \leq 47$  using photoionization**  
Durak R., Özdemir Y.  
RADIATION PHYSICS AND CHEMISTRY, vol.61, no.1, pp.19-25, 2001 (SCI-Expanded)
- XXXVIII. **X-ray fluorescence escape peaks in Ge(Li) detectors**  
Durak R., Ozdemir Y.  
INSTRUMENTATION SCIENCE & TECHNOLOGY, vol.29, no.3, pp.185-192, 2001 (SCI-Expanded)
- XXXIX. **Experimental determination of L-subshell fluorescence yields for heavy elements at 59.54 keV**  
Durak R., Ozdemir Y.  
JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY, vol.16, no.10, pp.1167-1171, 2001 (SCI-Expanded)
- XL. **Measurement of L<sub>I</sub>, L alpha, L beta and L gamma X-ray production cross sections and average L shell fluorescence yields for elements in the atomic range  $70 \leq Z \leq 92$  at 59.54 keV**  
Ozdemir Y., Durak R.  
PHYSICA SCRIPTA, vol.62, no.1, pp.41-45, 2000 (SCI-Expanded)
- XLI. **Measurement of K- to L- and M-shell radiative vacancy transfer probabilities in lanthanide elements by 59.54 keV photons**  
Durak R., Ozdemir Y.  
X-RAY SPECTROMETRY, vol.29, no.2, pp.151-154, 2000 (SCI-Expanded)
- XLII. **L<sub>I</sub>, L $\alpha$ , L $\beta$  and L $\gamma$  X-ray production cross-sections and yields of some selected elements between caesium and erbium following ionization by 59.54 keV  $\gamma$  rays**  
DURAK R., ÖZDEMİR Y.  
Spectrochimica acta, Part B: Atomic spectroscopy, vol.55, no.2, pp.177-184, 2000 (SCI-Expanded)
- XLIII. **Measurement of the Compton and Coherent Scattering Differential Cross-Sections**  
KURUCU Y., ERZENEGLU S., DURAK R., Şahin Y.  
Turkish Journal of Physics, vol.22, no.8, pp.783-788, 1998 (SCI-Expanded)
- XLIV. **Incoherent differential scattering cross-sections of 59.5 keV photons in In, Au and Pb**  
KURUCU Y., DURAK R., ERZENEĞLU S. Z., ŞAHİN Y.  
Journal of Trace and Microprobe Techniques, vol.16, no.3, pp.293-300, 1998 (SCI-Expanded)
- XLV. **K- to L- and M-shell radiative vacancy transfer probability measurements in some elements from Nd to Pb**  
Durak R., Ozdemir Y.

JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS, vol.31, no.16, pp.3575-3581, 1998 (SCI-Expanded)

- XLVI. **Coherent scattering of 59.5 keV  $\gamma$ -rays by Ti, Ni, Zr and in through angles from 36° to 135°**  
ERZENEÖĞLU S. Z., DURAK R., KURUCU Y., ŞAHİN Y.  
Applied Spectroscopy Reviews, vol.33, pp.175-187, 1998 (SCI-Expanded)
- XLVII. **Measurement of photon-induced K X-ray production cross-sections for some elements with  $40 \leq Z \leq 70$  at 122 KeV**  
DURAK R., ERZENEÖĞLU S. Z., KURUCU Y., Şahin Y.  
RADIATION PHYSICS AND CHEMISTRY, vol.51, no.1, pp.45-48, 1998 (SCI-Expanded)
- XLVIII. **Incoherent differential scattering cross-sections of 59.5 keV photons in In, An and Pb**  
Kurucu Y., Durak R., Erzeneoglu S., Sahin Y.  
JOURNAL OF TRACE AND MICROPROBE TECHNIQUES, vol.16, no.3, pp.293-300, 1998 (SCI-Expanded)
- XLIX. **Scattering of 59.5 keV  $\gamma$ -rays by Ti, Ni and Zr**  
KURUCU Y., ERZENEÖĞLU S. Z., DURAK R., ŞAHİN Y.  
Applied Spectroscopy Reviews, vol.33, pp.167-174, 1998 (SCI-Expanded)
- L. **Measurement of [Formula Presented]-shell fluorescence yields of selected elements from Cs to Pb using radioisotope x-ray fluorescence**  
DURAK R., Şahin Y.  
Physical Review A - Atomic, Molecular, and Optical Physics, vol.57, no.4, pp.2578-2582, 1998 (SCI-Expanded)
- LI. **K-shell X-ray fluorescence cross-sections and yields measurements in 12 elements from Zr to Yb at 122 keV**  
DURAK R.  
Physica Scripta, vol.58, no.2, pp.111-115, 1998 (SCI-Expanded)
- LII. **Natural background in Ge(Li) spectrometers**  
DURAK R., ERZENEÖĞLU S. Z., KURUCU Y., Şahin Y.  
INSTRUMENTATION SCIENCE & TECHNOLOGY, vol.25, no.4, pp.335-343, 1997 (SCI-Expanded)
- LIII. **Scattering contribution of fluorescent radiation to XRF intensity in Ge(Li) detectors**  
DURAK R., KURUCU Y., ERZENEÖĞLU S. Z., ERTUĞRUL M., ŞAHİN Y.  
Physica Scripta, vol.55, no.5, pp.547-549, 1997 (SCI-Expanded)
- LIV. **Measurement of K-shell fluorescence yields for Ba, Ce, Nd, Gd, Dy, Er and Yb using radioisotope XRF**  
DURAK R., Şahin Y.  
Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms, vol.124, no.1, pp.1-4, 1997 (SCI-Expanded)
- LV. **Measurement of M shell X-ray production cross sections and fluorescence yields for the elements in the atomic range  $70 \leq Z \leq 92$  at 5.96 keV**  
ERTUĞRUL M., TIRAŞOĞLU E., KURUCU Y., ERZENEÖĞLU S. Z., DURAK R., ŞAHİN Y.  
Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms, vol.108, pp.18-22, 1996 (SCI-Expanded)
- LVI. **Coherent scattering of 59.5 keV photons by Au and Pb**  
ERZENEÖĞLU S. Z., KURUCU Y., DURAK R., ŞAHİN Y.  
Physica Scripta, vol.54, no.2, pp.153-155, 1996 (SCI-Expanded)
- LVII. **Analysis of Binary Systems with Rayleigh and Compton Scattered Photons**  
Durak R., Ertugrul M., Erzeneoglu S. Z., Kurucu Y.  
APPLIED SPECTROSCOPY REVIEWS, vol.30, no.1-2, pp.1-11, 1995 (SCI-Expanded)
- LVIII. **ANGULAR-DEPENDENCE OF DIFFERENTIAL CROSS-SECTIONS OF L-X-RAYS FROM HG, TL AND PB AT 59.5 KEV**  
ERTUGRUL M., DURAK R., TIRASOGLU E., BUYUKKASAP E., ERDOGAN H.  
APPLIED SPECTROSCOPY REVIEWS, vol.30, no.3, pp.219-225, 1995 (SCI-Expanded)
- LIX. **ANALYSIS OF BINARY-SYSTEMS WITH RAYLEIGH AND COMPTON SCATTERED PHOTONS**  
Ertugrul M., ŞAHİN Y.  
APPLIED SPECTROSCOPY REVIEWS, vol.30, no.1-2, pp.1-11, 1995 (SCI-Expanded)

- LX. **Measurements of atomic form factors at 4.283-A-1 photon-momentum transfer**  
ERZENEÖĞLU S. Z., KURUCU Y., DURAK R., AHIN Y.  
Physical Review A, vol.51, no.6, pp.4628-4630, 1995 (SCI-Expanded)
- LXI. **Incoherent scattering of 59.5 keV gamma-rays by light, medium and heavy elements**  
KURUCU Y., ERZENEÖĞLU S. Z., ŞAHİN Y., Durak R.  
Il Nuovo Cimento D, vol.16, no.6, pp.555-559, 1994 (SCI-Expanded)
- LXII. **Peak area determination and energy dependence of gamma- and X-ray peak tailing**  
ŞAHİN Y., DURAK R., KURUCU Y., ERZENEÖĞLU S. Z.  
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I. **8.02 Elektrik ve Manyetizma 2002 İlk Baharında Öğretildiği Gibi TÜBA Açık Ders Materyalleri**

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II. **8.02 Elektrik ve Manyetizma 2002 İlk Baharında Öğretildiği Gibi TÜBA Açık Ders Materyalleri**

DURAK R.

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## Supported Projects

DURAK R., ARAZ A., Project Supported by Higher Education Institutions, Radyasyon Zırhlama İçin Yeni Hafif Kompozit Malzemeler, 2019 - 2021

DURAK R., GÜZELDİR B., GÜROL A., Project Supported by Higher Education Institutions, Fizik Bölümü Bilimsel Etkinliği ve Ar-Ge Potansiyelini Artırma Projesi, 2017 - 2019

DURAK R., BALTAKESEMEZ A., Project Supported by Higher Education Institutions, INTERNATIONAL PHYSICS CONFERENCE AT THE ANATOLIAN PEAK, IPCAP 2016, 2015 - 2016

DURAK R., CİNAN E., Project Supported by Higher Education Institutions, International Physics Conference at the Anatolian Peak, IPCAP 2016, 2015 - 2016

DURAK R., CİNAN E., Project Supported by Higher Education Institutions, Temel fizik laboratuvarının güncellenmesi ve yenilenmesi, 2014 - 2015

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DURAK R., TURHAN M. F., Project Supported by Higher Education Institutions, DİSPROSYUM BİLEŞİKLERİNİN FOTON ETKİLEŞME PARAMETRELERİNİN TAYİNİ, 2013 - 2015

DURAK R., TURHAN M. F., Project Supported by Higher Education Institutions, BAZI TERMOLÜMİNESANS VE FOTOLÜMİNESANS BİLEŞİKLERİNİN ATOMİK PARAMETRELERİNİN İNCELENMESİ, 2013 - 2015

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DURAK R., TURHAN M. F., Project Supported by Higher Education Institutions, EDXRF COMPTON AZALTMA VE X İŞİNİ METOTLARINI KULLANARAK ATOM NUMARASI 40-Z-92 ARASINDAKİ BAZI ELEMENTLERİNİN K TABAKASI VE L3 ALT TABAKASI SOĞURMA SIÇRAMA FAKTÖRÜ VE SIÇRAMA ORANLARININ ÖLÇÜLMESİ VE AYNI ARALIKTAKİ BAZI ELEMENTLERİNİN BİLEŞİKLERİNİN ETKİN ATOM NUMARASININ VE ETKİN ELEKTRON YOĞUNLUĞUNUN SOĞURMA SIÇRAMA FAKTÖRLERİNİN ÖLÇÜLMESİ,, 2011 - 2013

DURAK R., Project Supported by Higher Education Institutions, A.Ü.PASINLAR MYO ELEKTRİK VE ENERJİ BÖLÜMÜ ÖĞRETİM ELEMANLARINI SOSYOLOJİK BAKIMDAN MOTİVE EDECEK MATERYALLERİN HAZIRLANMASI PROJESİ,, 2010 -

2011

## Activities in Scientific Journals

Universal Journal of Materials Science, Committee Member, 2020 - Continues

MAYFEB Journal of Physics, Committee Member, 2016 - Continues

## Memberships / Tasks in Scientific Organizations

European X-ray Spectrometry Association, Member, 2015 - Continues, Hungary

Türk Fizik Derneği, Member, 1992 - Continues

## Tasks In Event Organizations

Durak R., 7th International Conference on Advances in Natural & Applied Sciences (ICANAS'24), Scientific Congress, Antalya, Turkey, Nisan 2024

Durak R., 6th International Conference on Advances in Natural & Applied Sciences (ICANAS'22), Scientific Congress, Ağrı, Turkey, Ekim 2022

Durak R., 5th International Conference on Advances in Natural & Applied Sciences (ICANAS'21) , Scientific Congress, Ağrı, Turkey, Eylül 2021

Durak R., 4th International Conference on Advances in Natural & Applied Sciences (ICANAS'19), Scientific Congress, Ağrı, Turkey, Haziran 2019

Durak R., 3rd International Conference on Advances in Natural & Applied Sciences (ICANAS'18), Scientific Congress, Antalya, Turkey, Haziran 2018

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Durak R., International Physics Conference at the Anatolian Peak, IPCAP, Scientific Congress, Erzurum, Turkey, Şubat 2016

Durak R., Traditional Days of Physics-II , Scientific Congress, Erzurum, Turkey, Mayıs 2005

Durak R., III. National Atomic and Molecular Physics Symposium, Scientific Congress, Erzurum, Turkey, Mayıs 2000

## Scientific Research / Working Group Memberships

Ridvan Durak's Lab, Ataturk University, Turkey, <https://www.researchgate.net/lab/Ridvan-Durak-Lab>, 2012 - Continues

## Metrics

Publication: 252

Citation (WoS): 749

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H-Index (WoS): 15

H-Index (Scopus): 15

## Congress and Symposium Activities

7th International Conference on Advances in Natural & Applied Sciences (ICANAS'22), Attendee, Antalya, Turkey, 2024

6th International Conference on Advances in Natural & Applied Sciences (ICANAS'22), Session Moderator, Ağrı, Turkey, 2022

3 rd International Conference on Advances in Natural and Applied Sciences, Session Moderator, Antalya, Turkey, 2018

2 nd International Conference on Advances in Natural and Applied Sciences, Session Moderator, Antalya, Turkey, 2017

Turkish Physical Society 32 nd International Physics Congress, Session Moderator, Muğla, Turkey, 2016

Measurement of Fluoresans Parameters of Some Ni and Zn Transition Metal Complexes With Carboxylic Acid Coordination, Attendee, İstanbul, Turkey, 2015

Determination of Trace Element Concentrations in Different Types Cancerous and Healthy Lung Tissues Using Icp-Oes Technique: Stage, Sex and Age Dependence, Attendee, Turkey, 2015

Determination of the K Shell Absorption Jump Factor of Molecular and Atomic Cross Sections for Some Samarium Compounds, Attendee, Turkey, 2015

The Investigation of Chemical Effect on Some Cu And Fe Metal Complexes, Attendee, Turkey, 2015

Measurement of Magnetic Quadrupole-Electric Dipole Mixing Ratios and Angular Distribution Parameters in Atomic Inner-Shell Transitions, Attendee, Montréal, Canada, 2013

A Study on Cu in Se<sub>2</sub> Thin Films Deposited by Spray Pyrolysis Technique, Attendee, Turkey, 2013

The Properties of The Zn in se Thin Film Grown by Silar Method, Attendee, Montréal, Canada, 2013

Measurements of Radiative Vacancy Transfer Probabilities for Some Elements Irradiated with Photons of 0.0208 Nanometer Wavelengths, Attendee, Alchevs`K, Ukraine, 2012

## **Awards**

DURAK R., Uluslararası Bilimsel Yayınları Teşvik (UBYT) Programı, TÜBİTAK, May 2016