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Education Information

Doctorate, Gazi University, Ankara Meslek Yüksekokulu, Turkey 2000 - 2004

Postgraduate, Van Yüzüncü Yıl University, Fen Bilimler Enstitüsü -Fizik, Turkey 1992 - 1994

Undergraduate, Inonu University, Fen Edebiyat Fakültesi Fizik , Turkey 1985 - 1989

Foreign Languages

English, B1 Intermediate

Dissertations

Doctorate, ATOM NUMARASI $62 \leq Z \leq 83$ ARASINDAKİ BAZI ELEMENTLERİN L TABAKASINA AİT COSTER –KRONİG ŞİDDETLENDİRME FAKTÖRLERİ VE FLUORESANS VERİMLERİNİN ÖLÇÜLMESİ, Gazi University, Fen Bilimleri , Fizik, 2004

Postgraduate, BRUNNER MODELİ İLE 3d GEÇİŞ ELEMENTLERİNİN ELEKTRONEGATİFİĞİ, Van Yüzüncü Yıl University, Fen Bilimleri , Fizik, 1994

Academic Titles / Tasks

Associate Professor, Van Yüzüncü Yıl University, Fen Fkültesi, Fizik, 2016 - Continues

Assistant Professor, Van Yüzüncü Yıl University, Fen Fkültesi, Fizik, 2007 - 2016

Research Assistant PhD, Van Yüzüncü Yıl University, Fen Fkültesi, Fizik, 2004 - 2007

Research Assistant, Van Yüzüncü Yıl University, Fen Fkültesi, Fizik, 1991 - 2004

Advising Theses

Yılmaz R., Calculation of photon interaction parameters of some biological tissue, Postgraduate, R.KAMARAN(Student), 2020

Yılmaz R., Atom numarası $40 \leq Z \leq 50$ arasındaki elementlerin L tabakasına ait x- ışınları üzerine coster-kronig geçişlerin etkisi, Postgraduate, T.ÖZMEN(Student), 2019

Yılmaz R., Atom numarası $22 \leq Z \leq 35$ arasındaki bazı elementlerin ikincil kaynak kullanarak K-tabakası x-ışınları tesir kesit ve flüoresans verimlerinin ölçülmesi, Postgraduate, Y.EMRE(Student), 2019

Yılmaz R., ATOM NUMARASI $22 \leq Z \leq 40$ ARASINDAKİ BAZI ELEMENTLER İÇİN X-IŞINI FLUORESANS TESİR KESİTLERİ VE FLUORESANS VERİMLERİNİN ÖLÇÜLMESİ, Postgraduate, H.TUNÇ(Student), 2018

Yılmaz R., Atom numarası $61 \leq Z \leq 71$ arasındaki elementlerin L tabakasına ait tesir kesit ve Coster-Kronig şiddetlendirme

faktörlerinin hesaplanması, Postgraduate, R.TAŞ(Student), 2011

Yılmaz R., Genelleştirilmiş model yardımıyla çift-çift çekirdeklerin uyarılmış durumlarının incelenmesi, Postgraduate, R.SÖNMEZ(Student), 2010

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **An experimental analysis of the effects of SrO on the mechanical, structural, optical, and nuclear radiation shielding properties of barium borate glasses**
Kavgacı M., Yaykaşı H., Eskalen H., KAVAZ E., KALECİK S., Yılmaz R., Tunç H.
Optical Materials, vol.149, 2024 (SCI-Expanded)
- II. **K-beta/K-alpha X-Ray Intensity Ratios for Cr, Mn, Fe, and Co Excited by 8.735 keV Energy**
Yılmaz R.
ACTA PHYSICA POLONICA A, vol.133, no.5, pp.1227-1230, 2018 (SCI-Expanded)
- III. **K-beta/K-alpha X-ray intensity ratios for some elements in the atomic number range $28 \leq Z \leq 39$ at 16.896 keV**
Yılmaz R.
JOURNAL OF RADIATION RESEARCH AND APPLIED SCIENCES, vol.10, no.3, pp.172-177, 2017 (SCI-Expanded)
- IV. **Calculation of Coster-Kronig Enhancement Factors of the Some Elements in the Atomic Number Range $50 \leq Z \leq 59$**
Yılmaz R.
ACTA PHYSICA POLONICA A, vol.130, no.6, pp.1269-1272, 2016 (SCI-Expanded)
- V. **Measurements of K-shell X-ray production cross-sections and fluorescence yields for some elements in the atomic number range $28 \leq Z \leq 40$**
Yılmaz R., Tunc H., Ozkartal A.
RADIATION PHYSICS AND CHEMISTRY, vol.112, pp.83-87, 2015 (SCI-Expanded)
- VI. **Measurements of K-shell X-ray production cross-sections and fluorescence yields for Cr, Mn, Fe and Co elements**
Yılmaz R.
RADIATION PHYSICS AND CHEMISTRY, vol.96, pp.1-4, 2014 (SCI-Expanded)
- VII. **Infrared Spectra, Density Functional Theory and Hartree-Fock Theoretical Calculations of 2-Methyl-8-quinolinol**
Arici K., Yılmaz R.
ASIAN JOURNAL OF CHEMISTRY, vol.25, no.13, pp.7106-7114, 2013 (SCI-Expanded)
- VIII. **Measurements of L-2,L-3 subshells X-ray production cross-sections and average L-2,L-3 subshells fluorescence yield values of some elements in the atomic number range $70 \leq Z \leq 78$**
Yılmaz R.
RADIATION PHYSICS AND CHEMISTRY, vol.81, no.10, pp.1539-1542, 2012 (SCI-Expanded)
- IX. **Calculation of Coster-Kronig Enhancement Factors For Nd-60 and Pm-61 at Different Excitation Energies**
Yılmaz R., Tas R., Babayigit R., Arici K.
ASIAN JOURNAL OF CHEMISTRY, vol.23, no.7, pp.3148-3150, 2011 (SCI-Expanded)
- X. **Measurements of Coster-Kronig enhancement factors for Tm-69**
Yılmaz R., ARICI K., ÖZ E., Tan M.
JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA, vol.184, pp.1-4, 2011 (SCI-Expanded)
- XI. **Calculation of Coster-Kronig Enhancement Factors and L Subshell X-Ray Fluorescence Cross-Sections for Cs-55**
Yılmaz R., Arici K.
ASIAN JOURNAL OF CHEMISTRY, vol.22, no.7, pp.5463-5467, 2010 (SCI-Expanded)
- XII. **Measurements of Coster-Kronig enhancement factors for Yb, Lu, Os and Pt elements**
Yılmaz 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)

- XIII. **Granularity aspect of the high temperature superconductivity (HTSC) materials made by metal organic chemical vapour deposition method**

Demirel A. İ., Yılmaz R., Araso Ğ Lu A., ZAHİRİ A. D.

Indian Journal of Pure and Applied Physics, vol.38, no.12, pp.815-820, 2000 (SCI-Expanded)

- XIV. **Chemical effects on the K-beta/K-alpha intensity ratios in first-row transition element compounds**

Kucukonder A., Buyukkasap E., Yılmaz R., Sahin Y.

ACTA PHYSICA POLONICA A, vol.95, no.2, pp.243-250, 1999 (SCI-Expanded)

Articles Published in Other Journals

- I. **Calculation of the infrared spectrum of 4-Cyanostyrene by Hartree-Fock (HF) and Density Functional Theory (DFT)**

Yılmaz R., Arıcı K.

International Journal of Chemistry and Technology, vol.4, no.2, pp.156-161, 2020 (Peer-Reviewed Journal)

- II. **Variation of Coster-Kronig enhancement factors at different excitation energies of the elements in the atomic number range 41 ≤ Z ≤ 49**

Yılmaz R., Özmen T., Çakır T.

International Journal of Chemistry and Technology, vol.3, no.2, pp.101-112, 2019 (Peer-Reviewed Journal)

- III. **Measurements of K- shell X-ray production cross-sections and fluorescence yield for 31Ga element**

Yılmaz R., Aksöz Y. E.

IOSR Journal of Applied Physics, vol.10, no.6, pp.17-20, 2018 (Peer-Reviewed Journal)

- IV. **Measurement of K-shell production cross-section and fluorescence yield for Y element**

Özkartal A., TUNÇ H., Yılmaz R., ÖZMEN T.

AMERICAN JOURNAL OF PHYSICS AND APPLICATION, vol.3, pp.1-5, 2015 (Peer-Reviewed Journal)

- V. **Resistivity properties of superconducting materials (Ba/K) BiO₃ in magnetic field. Bulletin of Pure and Applied Sciences. Vol:18 D No:1 (1999) P.13-16**

DEMİREL A., Yılmaz R.

Bulletin of Pure and Applied Sciences, vol.18, pp.13-16, 1999 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Effective Atomic Number and Electron Intensity of Some Compounds Found in Bone**

Yılmaz R., Salami D.

4th International Conference on Physical Chemistry and Functional Materials (PCFM'21) April 08-09, 2021 Firat University, Elazığ-Turkey, Elazığ, Turkey, 8 April - 09 May 2021, pp.125-126

- II. **Effect of Coster-Kronig Transitions to X-rays in L Shell for 65 Tb Element**

Yılmaz R., Salami D.

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- III. **Determination of Photon Absorption Characteristics of Soft Tissue**

Yılmaz R., Fattah R.

2nd International Conference on Physical Chemistry and Functional Materials (PCFM'19)-June 25-27, 2019, Cappadocia-Turkey, Nevşehir, Turkey, 25 - 27 June 2019, pp.1-2

- IV. **June 25-27, 2019,**

Yılmaz R.

2nd International Conference on Physical Chemistry and Functional Materials (PCFM'19)-June 25-27, 2019, Cappadocia-Turkey, Nevşehir, Turkey, 25 - 27 June 2019, pp.35-36

- V. **Measurements of K Shell X-Ray Production Cross-Sections and Fluorescence Yields for the Some**

Elements in the Atomic Number Range $22 \leq Z \leq 35$

YILMAZ R.

International Conference on Physical Chemistry and Functional Materials(PCFM'18)-June 19-21, 2018, Fırat University, Elazığ-Turkey, 19 - 21 June 2018

- VI. **X-Ray Intensity Ratios for the Some Elements in the Atomic Number Range $22 \leq Z \leq 35$**
YILMAZ R.
International Conference on Physical Chemistry and Functional Materials(PCFM'18)-June 19-21, 2018, Fırat University, Elazığ-Turkey, 19 - 21 June 2018
- VII. **Measurements of Atomic L Subshell Production Cross-Section and Fluorescence Yields for Pt element**
Aksöz Y. E., Yılmaz R.
Türk Fizik Derneği 33.Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 10 September 2017, vol.1, no.1, pp.566
- VIII. **Measurements of K Alfa X-Ray Production Cross-Sections and Fluorescence Yields for Zn, Ga, As and Se at 13.597 keV**
Aksöz Y. E., Yılmaz R.
Türk Fizik Derneği 33.Uluslararası Fizik Kongresi, Muğla, Turkey, 6 September - 10 October 2017, vol.1, no.1, pp.566
- IX. **Measurements of K alfa-shell X-ray production cross-sections for some elements in the atomic number range $28 \leq Z \leq 40$**
Yılmaz R., TUNÇ H.
Turkish Physical Society 30.International Physics Conference İstanbul, Türkiye , semtember (2013).2, İstanbul, Turkey, 1 - 06 September 2014, pp.465
- X. **Measurement of L shell X-ray fluortescence intensity ratios for 69 Tm by photoionization of consecutive L- subshells ,**
Yılmaz R.
Turkish Physical Society 30.International Physics Conference İstanbul, Türkiye , semtember (2013)., İstanbul, Turkey, 4 - 08 September 2013, pp.355
- XI. **Effect of Coster-Kronig Transitions on X-ray fluorescence cross-sections for 74W at different exciation energy ,**
Yılmaz R.
Physical Society 30.International Physics Conference İstanbul, Türkiye , semtember (2013)., İstanbul, Turkey, 4 - 08 September 2013, pp.356
- XII. **Measurements of X-ray fluorescence cross-sections for 32Ge, 29Cu, 26Fe and 24Cr at 11.372 keV.**
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Turkish Physical Society 30.International Physics Conference İstanbul, Türkiye , semtember (2013)., İstanbul, Turkey, 4 - 08 September 2013, pp.357
- XIII. **Measurements of K X-ray fluorescence cross-sections for Cr, Mn, Fe and Co elements at 8.735 keV ,**
Yılmaz R.
Turkish Physical Society 29.International Physics Conference , Bodrum, Türkiye , Semtember 2012, Muğla, Turkey, 1 - 04 September 2012, pp.466
- XIV. **Measurements of atomic L subshel fluorescence cross-section and fluorescence yields for 71Lu ,**
Yılmaz R.
Turkish Physical Society 29.International Physics Conference , Bodrum, Türkiye , Semtember (2012), Muğla, Turkey, 1 - 04 September 2012, pp.467
- XV. **Effect of Coster-Cronig Transitions on X-Ray fluorescence cross-section for 58Ce ,**
Yılmaz R.
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- XVI. **Measurements of Atomic Shell Auger Yields for 76Os ,**
Yılmaz R.
Physical Society 28.International Physics Conference , Bodrum, Türkiye , Semtember (2011, Muğla, Turkey, 03

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- XVII. **Measurement of K alfa X-Ray fluorescence Cross-Sections for Some Elements the Atomic Number Range $24 \leq Z \leq 30$,**
Yılmaz R.
Physical Society 28.International Physics Conference , Bodrum, Türkiye , Semtember (2011, Muğla, Turkey, 3 - 06 September 2011, pp.434
- XVIII. **Effect of Coster-Kronig Transitions on X-Ray fluorescence cross-sections for ^{59}Pr ,**
Yılmaz R.
Turkish Physical Society 28.International Physics Conference , Bodrum, Türkiye , Semtember (2011), Muğla, Turkey, 3 - 06 September 2011, pp.433
- XIX. **Average 2P subshells Fluorescence Yield Values for Lu and Os ,**
Yılmaz R.
Turkish Physical Society 27.International Physics Conference , İstanbul, Türkiye , Semtember (2010), İstanbul, Turkey, 1 - 04 September 2010, pp.422
- XX. **Calculation of Coster 'Kronig enhancement factors for Pm at different excitation energies ,**
Yılmaz R.
Turkish Physical Society 27.International Physics Conference , İstanbul, Türkiye , Semtember (2010), İstanbul, Turkey, 1 - 04 September 2010, pp.424
- XXI. **Calculation of Coster-Kronig enhancement factors for Ba ,**
Yılmaz R.
Turkish Physical Society 27.International Physics Conference , İstanbul, Türkiye , Semtember (2010), İstanbul, Turkey, 1 - 04 September 2010, pp.423
- XXII. **Measurement of Atomic L Shell Fluorescence and Auger Yields for ^{69}Tm ,**
Yılmaz R.
Turkish Physical Society 26.International Physics Conference , Bodrum, Türkiye , August(2009), Muğla, Turkey, 1 - 06 September 2009, pp.355
- XXIII. **Calculation of X-ray fluorescence cross-sections and Coster 'Kronig enhancement factors for ^{57}La ,**
Yılmaz R.
Turkish Physical Society 26.International Physics Conference , Bodrum, Türkiye , August (2009), Muğla, Turkey, 1 - 06 September 2009, pp.356
- XXIV. **Measurement of Atomic L Shell Coster-Kronig Yields(f_{12} , f_{23} and f_{13}) for Tm Element ,**
Yılmaz R.
Turkish Physical Society 25.International Physics Conference , Bodrum, Türkiye , August (2008), Muğla, Turkey, 1 - 06 September 2008, pp.357
- XXV. **Measurements of Coster-Kronig Enhancement Factors for Tm Element ,**
Yılmaz R., ÖZ E., TAN M.
6 the International Conference of the Balkan Physical Union , İstanbul, Türkiye , Ağustos (2006, İstanbul, Turkey, 22 - 26 September 2006, pp.675
- XXVI. **Süper iletken Flimler'in Karakterize Edilmesinde Ölçüm Tekniği**
DEMİREL A. İ., Yılmaz R., ÖZDURAN M.
TFD.19,Fizik Kongresi,, Elazığ, Turkey, 26 September 2000, pp.200
- XXVII. **Brunner Modelini Kullanarak 3d Geçiş Elementlerinde $K\beta/K\alpha$ Şiddet Oranlarının Hesaplanması.**
KÜÇÜKÖNDER A., Yılmaz R.
TFD.16. Fizik Kongresi,, Muğla, Turkey, 26 - 29 September 1996, pp.265

Scientific Refereeing

International Journal of Chemistry and Technology, Journal Indexed in ESCI, July 2018

CANADIAN JOURNAL OF PHYSICS, SCI Journal, October 2016

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Metrics

Publication: 50

Citation (WoS): 46

Citation (Scopus): 32

H-Index (WoS): 5

H-Index (Scopus): 4