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Eğitim Bilgileri

Doktora, Gazi Üniversitesi, Ankara Meslek Yüksekokulu, Türkiye 2000 - 2004

Yüksek Lisans, Van Yüzüncü Yıl Üniversitesi, Fen Bilimler Enstitüsü -Fizik, Türkiye 1992 - 1994

Lisans, İnönü Üniversitesi, Fen Edebiyat Fakültesi Fizik , Türkiye 1985 - 1989

Yabancı Diller

İngilizce, B1 Orta

Yaptığı Tezler

Doktora, ATOM NUMARASI 62 ? Z ? 83 ARASINDAKİ BAZI ELEMENTLERİN L TABAKASINA AİT COSTER –KRONİG ŞİDDETLİNDİRME FAKTÖRLERİ VE FLUORESANS VERİMLERİNİN ÖLÇÜLMESİ, Gazi Üniversitesi, Fen Bilimleri , Fizik, 2004

Yüksek Lisans, BRUNNER MODELİ İLE 3d GEÇİŞ ELEMENTLERİNİN ELEKTRONEGATİFİĞİ, Van Yüzüncü Yıl Üniversitesi, Fen Bilimleri , Fizik, 1994

Akademik Unvanlar / Görevler

Doç.Dr., Van Yüzüncü Yıl Üniversitesi, Fen Fköltesi, Fizik, 2016 - Devam Ediyor

Yrd.Doç.Dr., Van Yüzüncü Yıl Üniversitesi, Fen Fköltesi, Fizik, 2007 - 2016

Araştırma Görevlisi Dr., Van Yüzüncü Yıl Üniversitesi, Fen Fköltesi, Fizik, 2004 - 2007

Araştırma Görevlisi, Van Yüzüncü Yıl Üniversitesi, Fen Fköltesi, Fizik, 1991 - 2004

Yönetilen Tezler

Yılmaz R., Calculation of photon interaction parameters of some biological tissue, Yüksek Lisans, R.KAMARAN(Öğrenci), 2020

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

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

Yılmaz R., Atom numarası 61 $Z \leq 71$ arasındaki elementlerin L tabakasına ait tesir kesit ve Coster-Kronig şiddetlendirme faktörlerinin hesaplanması, Yüksek Lisans, R.TAŞ(Öğrenci), 2011

Yılmaz R., Genelleştirilmiş model yardımıyla çift-çift çekirdeklerin uyarılmış durumlarının incelenmesi, Yüksek Lisans, R.SÖNMEZ(Öğrenci), 2010

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- 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., Yaykaşlı H., Eskalen H., KAVAZ E., KALECİK S., Yılmaz R., Tunç H.
Optical Materials, cilt.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, cilt.133, sa.5, ss.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, cilt.10, sa.3, ss.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, cilt.130, sa.6, ss.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, cilt.112, ss.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, cilt.96, ss.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, cilt.25, sa.13, ss.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, cilt.81, sa.10, ss.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, cilt.23, sa.7, ss.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, cilt.184, ss.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, cilt.22, sa.7, ss.5463-5467, 2010 (SCI-Expanded)
- XII. **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, cilt.78, sa.5, ss.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., Yilmaz R., Araso Ğ Lu A., ZAHİRİR A. D.

Indian Journal of Pure and Applied Physics, cilt.38, sa.12, ss.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., Yilmaz R., Sahin Y.

ACTA PHYSICA POLONICA A, cilt.95, sa.2, ss.243-250, 1999 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

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

Yilmaz R., Arıcı K.

International Journal of Chemistry and Technology, cilt.4, sa.2, ss.156-161, 2020 (Hakemli Dergi)

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

Yilmaz R., Özmen T., Çakır T.

International Journal of Chemistry and Technology, cilt.3, sa.2, ss.101-112, 2019 (Hakemli Dergi)

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

Yilmaz R., Aksöz Y. E.

IOSR Journal of Applied Physics, cilt.10, sa.6, ss.17-20, 2018 (Hakemli Dergi)

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

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

AMERICAN JOURNAL OF PHYSICS AND APPLICATION, cilt.3, ss.1-5, 2015 (Hakemli Dergi)

- 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., Yilmaz R.

Bulletin of Pure and Applied Sciences, cilt.18, ss.13-16, 1999 (Hakemli Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

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

Yilmaz R., Salami D.

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

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

Yilmaz R., Salami D.

4th International Conference on Physical Chemistry and Functional Materials (PCFM'21) April 08-09, 2021 Firat University, Elazığ-Turkey, Elazığ, Türkiye, 8 - 09 Nisan 2021, ss.29-30

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

Yilmaz R., Fattah R.

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

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

Yilmaz R.

2nd International Conference on Physical Chemistry and Functional Materials (PCFM'19)-June 25-27, 2019, Cappadocia-Turkey, Nevşehir, Türkiye, 25 - 27 Haziran 2019, ss.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, Firat University, Elazığ-Turkey, 19 - 21 Haziran 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, Firat University, Elazığ-Turkey, 19 - 21 Haziran 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, Türkiye, 6 - 10 Eylül 2017, cilt.1, sa.1, ss.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, Türkiye, 6 Eylül - 10 Ekim 2017, cilt.1, sa.1, ss.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, Türkiye, 1 - 06 Eylül 2014, ss.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, Türkiye, 4 - 08 Eylül 2013, ss.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, Türkiye, 4 - 08 Eylül 2013, ss.356
- XII. **Measurements of X-ray fluorescence cross-sections for 32Ge, 29Cu, 26Fe and 24Cr at 11.372 keV.**
Yılmaz R.
Turkish Physical Society 30.International Physics Conference İstanbul, Türkiye , semtember (2013)., İstanbul, Türkiye, 4 - 08 Eylül 2013, ss.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, Türkiye, 1 - 04 Eylül 2012, ss.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, Türkiye, 1 - 04 Eylül 2012, ss.467
- XV. **Effect of Coster-Cronig Transitions on X-Ray fluorescence cross-section for 58Ce ,**
Yılmaz R.
Turkish Physical Society 29.International Physics Conference , Bodrum, Türkiye , Semtember (2012)., Muğla, Türkiye, 1 - 04 Eylül 2012, ss.465
- XVI. **Measurements of Atomic Shell Auger Yields for 76Os ,**
Yılmaz R.
Physical Society 28.International Physics Conference , Bodrum, Türkiye , Semtember (2011, Muğla, Türkiye, 03

Eylül 2011 - 04 Eylül 2012, ss.438

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, Türkiye, 3 - 06 Eylül 2011, ss.434

XVIII. Effect of Coster-Kronig Transitions on X-Ray fluorescence cross-sections for 59Pr ,

Yılmaz R.

Turkish Physical Society 28.International Physics Conference , Bodrum, Türkiye , Semtember (2011), Muğla, Türkiye, 3 - 06 Eylül 2011, ss.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, Türkiye, 1 - 04 Eylül 2010, ss.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, Türkiye, 1 - 04 Eylül 2010, ss.424

XXI. Calculation of Coster-Kronig enhancement factors for Ba ,

Yılmaz R.

Turkish Physical Society 27.International Physics Conference , İstanbul, Türkiye , Semtember (2010), İstanbul, Türkiye, 1 - 04 Eylül 2010, ss.423

XXII. Measurement of Atomic L Shell Fluorescence and Auger Yields for 69Tm ,

Yılmaz R.

Turkish Physical Society 26.International Physics Conference , Bodrum, Türkiye , August(2009), Muğla, Türkiye, 1 - 06 Eylül 2009, ss.355

XXIII. Calculation of X-ray fluorescence cross-sections and Coster 'Kronig enhancement factors for 57La ,

Yılmaz R.

Turkish Physical Society 26.International Physics Conference , Bodrum, Türkiye, August (2009), Muğla, Türkiye, 1 - 06 Eylül 2009, ss.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, Türkiye, 1 - 06 Eylül 2008, ss.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, Türkiye, 22 - 26 Eylül 2006, ss.675

XXVI. Süper iletken Flimler Katerize Edilmesinde Ölçüm Tekniğı

DEMİREL A. İ., Yılmaz R., ÖZDURAN M.

TFD.19,Fizik Kongresi,, Elazığ, Türkiye, 26 Eylül 2000, ss.200

XXVII. Brunner Modelini Kullanarak 3d Geçiş Elementlerinde $K\beta/K\alpha$ Şiddet Oranlarının Hesaplanması.

KÜÇÜKÖNDER A., Yılmaz R.

TFD.16. Fizik Kongresi,, Muğla, Türkiye, 26 - 29 Eylül 1996, ss.265

Bilimsel Hakemlikler

International Journal of Chemistry and Technology, ESCI Kapsamındaki Dergi, Temmuz 2018

CANADIAN JOURNAL OF PHYSICS, SCI Kapsamındaki Dergi, Ekim 2016

RADIATION PHYSICS AND CHEMISTRY, SCI Kapsamındaki Dergi, Ağustos 2012

Metrikler

Yayın: 50

Atıf (WoS): 46

Atıf (Scopus): 32

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H-İndeks (Scopus): 4