

Prof. HALUK YÜCEL

Personal Information

Fax Phone: [+90 +90 535 666 3155](tel:+905356663155)

Email: haluk.yucel@ankara.edu.tr

Other Email: alfa.haluky@gmail.com

Web: <https://avesis.ankara.edu.tr/haluk.yucel>

International Researcher IDs

ORCID: 0000-0002-3084-9596

Publons / Web Of Science ResearcherID: G-6489-2011

ScopusID: 7003421943

Yoksis Researcher ID: 3905

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 1984 - 1992

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Nükleer Enerji Mühendisliği (YI) (Tezli), Turkey 1981 - 1984

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Turkey 1976 - 1981

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Other, Mürettebatsız Hava Araçlarına Monte Edilen Radyasyon İzleme Cihazlarında Güncel Gelişmeler, Nükleer Güç Santralinin Korunması Çalıştayı, T. C. İçişleri Bakanlığı Jandarma ve Sahil Güvenlik Akademisi, 2023

Other, Kirli Bombalar ve Nükleer Sahtecilik, Nükleer Güç Santralinin Korunması Çalıştayı, T. C. İçişleri Bakanlığı Jandarma ve Sahil Güvenlik Akademisi, 2023

Other, Technical Meeting Performance Testing and Specification of Spectroscopic and Energy Discrimination Algorithms Used for Nuclear Security, Uluslararası Atom Enerji Ajansı (IAEA), 2023

Other, Radyasyon Dedeksiyonu ve İzlenmesinde Personelsiz Hava Sistemlerinin Kullanılması, DRONE Temelli Radyasyon İzleme, SSB OTAG, 2023

Security, Technical Meeting on the Use of Uncrewed Aerial Systems for Radiation Detection and Surveillance, Uluslararası Atom Enerji Ajansı (IAEA), 2022

Measurement and Evaluation, TS EN IEC/ISO 17020 STANDARD EĞİTİMİ VE DENETÇİ EĞİTİMİ (MODÜL A;B), TÜRKAK-TÜRK AKREDİTASYON KURUMU, 2018

Dissertations

Doctorate, 137 Cs radyoizotopunun toprak ile etkileşme mekanizmalarının incelenmesi, Gazi University, Kore Dili ve Edebiyatı Anabilim Dalı, Fizik (Dr), 1992

Postgraduate, İnce Film Dedektör Yapımı ve 252Cf Filyon Ürünleri İle Bazı Uygulamalar, Hacettepe University, Fen Bilimleri Enstitüsü, Nükleer Enerji Mühendisliği (YI) (Tezli), 1984

Research Areas

Physics

Academic Titles / Tasks

Professor, Ankara University, Nükleer Bilimler Enstitüsü, Nükleer Bilimler Enstitüsü Müdürü, 2021 - Continues

Professor, Ankara University, Nükleer Bilimler Enstitüsü, Medikal Fizik Anabilim Dalı Başkanı, 2018 - Continues

Professor, Ankara University, Nükleer Bilimler Enstitüsü, Medikal Fizik Bölümü, 2010 - Continues

Associate Professor, Nükleer Fizik, 1997 - 2009

Research Assistant, Gazi University, Fen Fakültesi, Fizik, 1983 - 1986

Academic and Administrative Experience

Director of The Institution, Ankara University, Nükleer Bilimler Enstitüsü, Medikal Fizik Bölümü, 2021 - Continues

Head of Department, Ankara University, Nükleer Bilimler Enstitüsü, Medikal Fizik Bölümü, 2018 - Continues

Courses

102526 RADYASYONDAN KORUNMA FİZİĞİ VE ZIRHLAMA, Doctorate, 2022 - 2023, 2020 - 2021, 2016 - 2017, 2015 - 2016, 2014 - 2015

101516 RADYASYON ÖLÇÜM YÖNTEMLERİ, Postgraduate, 2023 - 2024, 2018 - 2019, 2017 - 2018

101517 Radyasyon Ölçüm Yöntemleri Laboratuvarı, Postgraduate, 2020 - 2021

102510 NÖTRON AKTİVASYONU VE ÖLÇÜM LABORATUVARI , Doctorate, 2020 - 2021

101617 EXPERIMENTS FOR RADIATION MEASUREMENT LABORATORY, Postgraduate, 2020 - 2021

102527 İleri Gama Spektroskopisi Laboratuvarı II, Doctorate, 2020 - 2021

101538 RADYASYONDAN KORUNMA FİZİĞİ, Postgraduate, 2020 - 2021

101638 RADIATION PROTECTION, Postgraduate, 2020 - 2021

101513 NÖTRON VE REAKTÖR FİZİĞİNE GİRİŞ, Postgraduate, 2018 - 2019, 2017 - 2018

101526 RADYASYONDAN KORUNMA, Postgraduate, 2018 - 2019

101616 RADIATION DETECTION AND MEASUREMENT METHODS, Postgraduate, 2018 - 2019, 2016 - 2017, 2015 - 2016

102511 İLERİ NÖTRON VE REAKTÖR FİZİĞİ, Doctorate, 2018 - 2019

102510 İLERİ RADYASYON DEDEKSİYONU LABORATUVARI, Doctorate, 2018 - 2019, 2016 - 2017

RADYASYON ÖLÇÜM YÖNTEMLERİ LABORATUVARI, Postgraduate, 2018 - 2019, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

FZM 461 NÜKLEER EMNİYET VE NÜKLEER GÜVENLİK DENETİMİ TEMELLERİ, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017

102526 RADYASYONDAN KORUNMA FİZİĞİ VE ZIRHLAMA, Postgraduate, 2018 - 2019

101538 RADIATION PROTECTION, Postgraduate, 2018 - 2019

İLERİ NÖTRON VE REAKTÖR FİZİĞİ, Postgraduate, 2017 - 2018

102535 İLERİ GAMA SPEKTROSKOPİ LABORATUVARI, Postgraduate, 2017 - 2018

İLERİ NÖTRON VE REAKTÖR FİZİĞİ, Doctorate, 2016 - 2017, 2011 - 2012, 2010 - 2011

RADYASYONDAN KORUNMA, Postgraduate, 2016 - 2017, 2014 - 2015, 2013 - 2014, 2012 - 2013

FZM 447 RADYASYON ÖLÇÜM YÖNTEMLERİ, Undergraduate, 2016 - 2017, 2015 - 2016

Radiation Protection, Postgraduate, 2016 - 2017

NÖTRON VE REAKTÖR FİZİĞİNE GİRİŞ, Postgraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011

101516 RADYASYON DEDEKSİYON VE ÖLÇÜM YÖNTEMLERİ, Postgraduate, 2016 - 2017

102535 İLERİ GAMA SPEKTROSKOPİ LABORATUVARI , Doctorate, 2015 - 2016
102510 İLERİ RADYASYON DEDEKSİYON VE ÖLÇÜM LABORATUVARI , Doctorate, 2015 - 2016
101514 NÜKLER ANALİZ TEKNİKLERİ, Postgraduate, 2015 - 2016
101516 RADYASYON DEDEKSİYONU VE ÖLÇÜM YÖNTEMLERİ, Postgraduate, 2015 - 2016
FZM 458 RADYASYON ÖLÇÜM LABORATUVARI, Undergraduate, 2015 - 2016
NÖTRON ÖLÇÜMÜ VE AKTİVASYON LABORATUVARI, Postgraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013
İLERİ GAMA SPEKTROSKOPİSİ LABORATUVARI, Postgraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013
İLERİ GAMA SPEKTROSKOPİSİ LABORATUVARI, Doctorate, 2014 - 2015
RADYASYONDAN KORUNMA FİZİĞİ VE ZIRHLAMA, Postgraduate, 2014 - 2015
FZM 455 NÜKLEER FİZİK LABORATUVARI, Undergraduate, 2014 - 2015
NÜKLEER ANALİZ TEKNİKLERİ, Postgraduate, 2014 - 2015, 2012 - 2013, 2011 - 2012, 2010 - 2011
İLERİ RADYASYON DEDEKSİYON VE ÖLÇÜM LABORATUVARI, Doctorate, 2014 - 2015, 2013 - 2014, 2010 - 2011
RADYASYON ÖLÇÜM YÖNTEMLERİ, Postgraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013
NÜKLER ANALİZ TEKNİKLERİ, Postgraduate, 2013 - 2014
RADYASYONDAN KORUNMA, Doctorate, 2013 - 2014, 2012 - 2013
İLERİ RADYASYON DEDEKSİYONU LABORATUVARI, Doctorate, 2012 - 2013, 2011 - 2012
NÜKLER FİZİK, Undergraduate, 2011 - 2012

Advising Theses

Yücel H., Pediatrik radyolojide 5-9 yaş aralığında çocuk dozimetrisi fantomu geliştirilmesi için farklı malzemelerin doku eşdeğerliğinin CdTe X-ışın spektroskopisi tekniğiyle incelenmesi ve Bilgisayarlı Tomografide standart fantomla elde edilen dozimetrik sonuçlarla karşılaştırılması, Doctorate, S.ZÜMRÜT(Student), 2026
Yücel H., BETA KALİBRASYONUNDA KULLANILMAK ÜZERE IŞINLAMA SİSTEMİ GELİŞTİRİLMESİ VE BETA DOZ HOMOJENLİĞİNİ ETKİLEYEN PARAMETRELERİN FARKLI KOŞULLARDA İNCELENMESİ, Doctorate, İ.DEMİREL(Student), 2026
Yücel H., Y-90 Radyoembolizasyon Tedavisinde Akciğer-Karaciğerde Soğurulan Dozun Belirlenmesi için Fantom Tasarımı ve PSD Dozimetrik Yöntemle Doz Dağılımının İncelenmesi, Doctorate, A.ÖZER(Student), 2025
Yücel H., Tomografi Çekiminde Meme Glandüler Dokusunda Soğurulan Dozun İncelenmesi için Türk Kadınına Özgü Antropomorfik Meme Fantomunun Tasarımı ve 3B Yazıcı Tekniği ile Üretilmesi, Doctorate, A.SAFİ(Student), 2025
Yücel H., Antropomorfik Baş-Boyun Fantomunda 6 MeV Elektron Demetiyle Verilen Cilt Dozunun PSD ve EBT3 Film Dozimetri Yöntemleri ile İncelenmesi ve TPS ile Öngörülen Dozla Karşılaştırılması, Postgraduate, A.VARANOK(Student), 2025
Yücel H., MEASUREMENT OF ORAL MUCOSA AND PAROTID GLANDS DOSES AT EXTERNAL PHOTON BEAM AT ANTROPOMORPHIC HEAD-NECK PHANTOM BY USING PSD AND EBT3 FILM DOSIMETER METHODS AND INVESTIGATION OF ITS SUITABILITY FOR QUALITY ASSURANCE TESTS IN RADIOTHERAPY, Postgraduate, C.İLTEMİŞ(Student), 2024
Yücel H., INVESTIGATION OF ZnS(Ag) BASED NEUTRON DETECTION, DETECTOR SIMULATION, DESIGN AND DEVELOPMENT OF AN ACTIVE NEUTRON DETECTOR SYSTEM, Doctorate, T.GÜRDAL(Student), 2024
Yücel H., Alfa ve Beta Yayımlayıcı Radyonüklitlerin Kontaminasyon Ölçümleri İçin Kullanılan Yüzey Kontaminasyon Monitörünün Kalibrasyonu İçin Bir Yöntem Geliştirilmesi ve ZnS:Ag Sintilatör Temelli Yüzey Kontaminasyon Monitör Cihazı ile Yüzeysel ²⁴¹Am, ⁹⁰Sr/ ⁹⁰Y ve Düşük Aktiviteli Kontaminasyonun Ölçümüne Uygulanması, Postgraduate, U.ŞİMŞEKÇİ(Student), 2024
Yücel H., Bostancı G. E., DEVELOPMENT OF AN OPTIMIZATION ALGORITHM FOR DOSE CONVERSION FROM GAMMA-RAY SPECTRUM USING G(E) FUNCTION TO ESTIMATE AMBIENT DOSE EQUIVALENT RATE WITH NaI(Tl), LaBr₃(Ce) SCINTILLATION AND CdZnTe SEMICONDUCTOR DETECTORS, Postgraduate, N.CEREN(Student), 2024
Yücel H., X-Işını Tanısal Enerji Aralığında Polistren Esaslı Exradin W1 Plastik Sintilatör Dedektörün Doz Tepkisinin İncelenmesi, Postgraduate, N.GÖKÇEK(Student), 2024
Yücel H., DEVELOPMENT OF A FUZZY LOGIC BASED ISOTOPE IDENTIFICATION ALGORITHM FOR CHARACTERIZATION OF RADIOACTIVE SOURCES MEASURED WITH A LaBr₃(Ce) SCINTILLATION DETECTOR , Postgraduate,

A.BARUT(Student), 2023

Yücel H., Çizgisel ve disk biçimli praseodim-142(142PR) brakiterapi kaynakların LABR3:CE ve HPGE dedektörleri ile aktivite karakterizasyonunun yapılması ve organ spesifik fantomlar üzerinde gama/beta doz hızı oranlarının hesaplanması, Postgraduate, M.AZE(Student), 2022

Yücel H., Antropomorfik Yetişkin Baş-Boyun Fantomu Geliştirilmesi, Doz Dağılımlarının Plastik Sintilatör Dozimetre Tekniği ile Ölçülmesi ve Monte Carlo Simülasyon yöntemiyle Hesaplanan Sonuçlar ile Karşılaştırılması, Postgraduate, G.ÜNAL(Student), 2022

Yücel H., Brakiterapi amaçlı üretilen 142PR beta kaynağı kullanılarak prostat grubu fantomda komşu yapıların (rektum+mesane) alabileceği dozların plastik sintilatör dozimetri tekniği ile belirlenmesi, Postgraduate, T.KAVALCI(Student), 2022

YÜCEL H., ÜÇ BOYUTLU(3D) YAZICIDA DOKU EŞDEĞERİ MALZEMELERDEN TEK POZİSYON STATİK SAĞ EL FANTOMU ÜRETİLMESİ VE ELDE CİLT DOZUNUN PLASTİK SİNTİLATÖR DOZİMETRE(PSD) YÖNTEMİ İLE BELİRLENMESİ, Postgraduate, C.GÜNEŞ(Student), 2021

YÜCEL H., Çizgisel ve Disk Biçimli Praseodim-142(142Pr) Brakiterapi Kaynakların LaBr3:Ce ve HPGe Dedektörleri ile Aktivite Karakterizasyonunun Yapılması ve Organ Spesifik Fantomlar Üzerinde Gama/Beta Doz Hızı Oranlarının Hesaplanması, Postgraduate, M.AZE(Student), 2021

YÜCEL H., YÜKSEK DOZ HIZLI PRASEODİM-142 BRAKİTERAPİ KAYNAĞIN REAKTÖRDE ÜRETİLMESİ VE SEÇİLEN HEDEF ORGANLARA ÖZGÜ FANTOMLARDA UYGULANABİLİRLİĞİNİN DOZİMETRİ TEKNİKLERİ İLE İNCELENMESİ, Doctorate, K.DURUER(Student), 2021

Yücel H., Radyolojik güvenlik amaçlı kullanım için NAI(TI) dedektörlü gama spektroskopi tekniğinin yerinde taramayla radyoizotop tanımlanması ve doz hızı ölçümlerine uygulanabilirliğinin incelenmesi, Postgraduate, T.SARİ(Student), 2021

YÜCEL H., PLA malzemeden yapılmış göz fantomunda radyokromik film dozimetri tekniği kullanarak 142PR beta doz dağılımının incelenmesi, Postgraduate, M.KAYAN(Student), 2020

YÜCEL H., LABR3(CE) sintilasyon dedektörleri ile elde edilen gama spektrumlarından radyoizotop tanımlanması için bayesian yöntemi ile bir algoritma geliştirilmesi, Postgraduate, S.SAATCI(Student), 2020

YÜCEL H., 90Sr / 90Y beta kaynağı kullanılarak beta dedektörlerinin kalibrasyonu ile ilgili prosedür oluşturulması, Postgraduate, F.BAYKUT(Student), 2020

YÜCEL H., 235U zenginlik tayininde eş-eksenli grid elektrotlu CdZnTe dedektörlerin uygulanabilirliğinin incelenmesi ve maskelenmiş gama spektrumlarının çözümlenmesi için algoritma geliştirilmesi, Postgraduate, S.BALCI(Student), 2019

Yücel H., Development of novel shielding material based on epoxy matrix loaded by high-Z chemical powders used for mammographic, diagnostic and industrial X and gamma ray energy range, and determination of its photon attenuation properties by ionization chamber method with use of standard beam qualities, Postgraduate, İ.DEMİREL(Student), 2019

YÜCEL H., Measurement of uranium, thorium and potassium activity content in Beylikova-Sivrihisar complex ore site and estimation of dose rates to miners, Postgraduate, S.ÖVÜÇ(Student), 2019

YÜCEL H., Sahada gama spektrometrik aktivite ölçümü için hpge dedektörünün 238U, 232Th, 40K içeren özel bloklar kullanılarak kalibrasyonunun yapılması ve saha ölçümüne uygulanması, Postgraduate, M.ÖZGÜR(Student), 2019

YÜCEL H., Toz ve metalik formdaki numunelerin temel parametreler yöntemi kullanılarak edxrf spektroskopisi ile kantitatif analizi, Postgraduate, O.AKDUMAN(Student), 2019

YÜCEL H., Epoksi esaslı doku eşdeğeri fantomların pediatrik radyolojide uygunluğunun incelenmesi, Postgraduate, A.SAFİ(Student), 2019

YÜCEL H., Epoksi esaslı mamografik görüntü kalitesi fantomu geliştirilmesi ve mamografik X-ışın sistemleri ile testlerinin yapılması, Postgraduate, R.BORA(Student), 2017

YÜCEL H., Mamografi görüntüleri kullanılarak glandülerite/yağ oranlarının belirlenmesi ve epoksi esaslı meme dokusu eşdeğer fantomun X-ışın spektroskopisi ile karakterizasyonu, Postgraduate, G.YEĞİN(Student), 2017

YÜCEL H., Mamografi sistemleri için doku eşdeğeri fantom geliştirilmesi, Monte Carlo simülasyon tekniği ve X-ışını spektroskopisi yöntemi ile karakterizasyonu, Doctorate, Ş.ÇUBUKÇU(Student), 2017

YÜCEL H., Mide kanseri tedavisinde üç boyutlu konformal radyoterapi, yoğunluk ayarlı radyoterapi ve volumetrik ark terapi tedavi tekniklerinin dozimetrik karşılaştırılması, Postgraduate, A.TEMÜR(Student), 2017

YÜCEL H., 226Ra, 152Eu içeren epoksi matrisli ve U, Th, K içeren selülöz matrisli marinelli geometride radyoaktif kalibrasyon kaynaklarının hazırlanması ve farklı tip HPGe dedektörlerle karakterizasyonu, Postgraduate, S.ZÜMRÜT(Student), 2017

YÜCEL H., ISO s-137Cs (0,662meV) demet kalitesinde yaklaşık doku eşdeğeri olan BC-408 plastik sintilatör dedektörün tepkisi ile doz arasındaki ilişkinin incelenmesi, Postgraduate, Ö.EMRAH(Student), 2016

Yücel H., X-IŞINI ÖLÇEN RADYASYON DEDEKTÖRLERİNİN KALİBRASYONU VE İŞINLANMASI İÇİN 40 – 100 kVp TÜP GERİLİMİ ARALIĞINDAKİ NIST/ADCL DEMET KALİTELERİNİN ELDE EDİLMESİ, KARAKTERİZE EDİLMESİ VE HAVA-KERMA KALİBRASYON SABİTİNİN BELİRLENMESİ İÇİN PROSEDÜR OLUŞTURULMASI, Postgraduate, E.VARLI(Student), 2016

YÜCEL H., Foton dedektörlerinin kalibrasyonu için bazı nist/adcl demet kalitelerinin karakterize edilmesi ve hava-kerma kalibrasyon sabitinin belirlenmesi için bir prosedür oluşturulması, Postgraduate, E.ARAN(Student), 2016

YÜCEL H., Nötron aktivasyonu ile 142Pr ve 170Tm radyoizotoplarının üretilmesi ve birincil ve ikincil radyoaktivite ölçme yöntemleri kullanılarak standardizasyonlarının yapılması, Postgraduate, E.YELTEPE(Student), 2016

YÜCEL H., 40 – 100 kVp X-ışını demet kalitelerinde borosilikat cam ve boroksit ile kalsiyum sülfat yüklemeli parafinin zayıflatma özelliklerinin incelenmesi ve ön kol veya bacağı temsil eden bir su ekstremitte fantomu ile karşılaştırılması, Postgraduate, A.İNİCİ(Student), 2014

YÜCEL H., 241Am-Be nötron alanında epitermal nötron spektrum α -biçim parametresinin 98Mo, 55Mn ve 197Au üçlü monitör yöntemiyle belirlenmesi, Postgraduate, A.KOLBAŞI(Student), 2014

YÜCEL H., Binalarda kaplama malzemesi olarak kullanılan seramik ve mermer örneklerinin EDXRF yöntemiyle kimyasal bileşiminin belirlenmesi ve radyolojik doz değerlendirmesi için gama spektrometrik yöntemle radyoaktivite içeriklerinin ölçülmesi, Postgraduate, H.GÖKMEN(Student), 2014

YÜCEL H., Uranyum zenginlik ölçer prensibine göre uranyum malzemelerde 235U zenginliğinin ölçülmesinde belirli bir kaynak-dedektör geometrisinde soğurucu ve kolimatör etkisinin incelenmesi, Postgraduate, A.ÖZER(Student), 2014

YÜCEL H., Diagnostik ve mamografik X-ışın demetlerine karşı koruyucu malzemelerin, plakaların ve farklı insan dokularını temsil eden fantomların farklı demet kalitelerinde x-ışınlarını zayıflatma özelliklerinin belirlenmesi, Postgraduate, E.GÜLLÜOĞLU(Student), 2013

YÜCEL H., Yaklaşık doku eşdeğeri olan BC-408 plastik sintilatörün radyolojik bölgedeki 40-120 keV X-ışınlarına ve 60-1333 keV gama ışınlarına karşı tepkisinin incelenmesi, Postgraduate, Y.ENGİN(Student), 2012

YÜCEL H., 71Ga, 75As, 115In, 152Sm, 158Gd, 164Dy, 170Er, 179Hf izotoplarının (n,?) tepkimeleri için etkin rezonans enerjilerinin çift monitör yöntemi ile belirlenmesi, Doctorate, M.GÜRAY(Student), 2008

YÜCEL H., 71Ga, 74As, 133Cs, 139La, 148Nd, 164Dy, 165Ho ve 186W izotoplarının (n,y) tepkimeleri için termal nötron ve rezonans integral tesir kesitlerinin 55Mn monitörü kullanılarak ölçülmesi, Doctorate, M.KARADAĞ(Student), 2003

YÜCEL H., İzotropik nötron alanında ışınlanan sonlu silindir numune geometrisi için numune miktarı ile termal nötron öz soğurma faktörünün ilişkisi, Postgraduate, M.GÜRAY(Student), 2002

YÜCEL H., Ters elektrodlu germanyum dedektörle numunelerdeki uranyumun doğrudan ölçülmesi için gama spektrometrik bir metod, Postgraduate, İ.ERGİN(Student), 2000

Jury Memberships

Doctorate, Doctorate, Ankara Üniversitesi, September, 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Design and Development of a Portable Neutron Detection System Based on a 6 Li-Doped ZnS(Ag) Scintillator**
Gürdal T., Yücel H.
NUCLEAR TECHNOLOGY, vol.00, no.00, pp.1-10, 2024 (SCI-Expanded)
- II. **Development of a flexible composite based on vulcanized silicon casting with bismuth oxide and characterization of its radiation shielding effectiveness in diagnostic X-ray energy range and medium gamma-ray energies**
Demirel İ., Yücel H.
Nuclear Engineering and Technology, vol.56, no.7, pp.2570-2575, 2024 (SCI-Expanded)

- III. **A study on quality control check of dose distribution in blood bags irradiated by ^{137}Cs source blood irradiator by using EBT3 radiochromic film dosimetry**
Alan H., Ünal G., Atakul T., Akyürek S., Yücel H.
RADIATION PHYSICS AND CHEMISTRY, vol.214, 2024 (SCI-Expanded)
- IV. **Application of peak based-Bayesian statistical method for isotope identification and categorization of depleted, natural and low enriched uranium measured by $\text{LaBr}_3\text{:Ce}$ scintillation detector**
YÜCEL H., Tüzüner S. S., Massey C.
Nuclear Engineering and Technology, vol.55, no.10, pp.3913-3923, 2023 (SCI-Expanded)
- V. **Could atmospheric carbon be driving sedimentation?**
Vinkovic A., Lapytev G., Yaprak G., Slavova K., Joksimovic D., Trostot-Corbic T., Frontasyeva M., Dului O. G., Bylyku E., Shyti M., et al.
JOURNAL OF SOILS AND SEDIMENTS, vol.22, no.11, pp.2912-2928, 2022 (SCI-Expanded)
- VI. **Investigation of the suitability of new developed epoxy based-phantom for child's tissue equivalency in paediatric radiology**
YÜCEL H., Safi A.
NUCLEAR ENGINEERING AND TECHNOLOGY, vol.53, no.12, pp.4158-4165, 2021 (SCI-Expanded)
- VII. **CORRIGENDUM TO: ESTIMATION OF RADIOLOGICAL EXPOSURE LEVELS IN A MINING AREA BASED ON ^{238}U , ^{226}Ra , ^{232}Th AND ^{40}K ACTIVITY MEASUREMENTS: A CASE STUDY FOR BEYLIKOVA-SIVRIHISAR COMPLEX ORE SITE IN TURKEY.**
Yücel H., Övüç S., Akkaya G., Çakmak Ş.
Radiation protection dosimetry, vol.192, no.4, pp.530, 2020 (SCI-Expanded)
- VIII. **Neutron self-shielding correction in application of $k(0)$ -NAA standardization method to determine Mn content in manganese ores**
AKKAYA G., YÜCEL H., BUDAK M. G.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.475, pp.1-7, 2020 (SCI-Expanded)
- IX. **ESTIMATION OF RADIOLOGICAL EXPOSURE LEVELS IN A MINING AREA BASED ON ^{238}U , ^{226}Ra , ^{232}Th AND ^{40}K ACTIVITY MEASUREMENTS: A CASE STUDY FOR BEYLIKOVA-SIVRIHISAR COMPLEX ORE SITE IN TURKEY**
YÜCEL H., Ovuc S., AKKAYA G., Cakmak S.
RADIATION PROTECTION DOSIMETRY, vol.190, no.3, pp.297-306, 2020 (SCI-Expanded)
- X. **Determination of radioactive contaminants in sediment and sand samples from the Black Sea by HPGe Gamma-ray spectrometry**
YÜCEL H., Guven R., Demirel I.
RADIOPROTECTION, vol.55, no.2, pp.141-145, 2020 (SCI-Expanded)
- XI. **Measurement of activity concentrations of ^{238}U , ^{226}Ra , ^{232}Th and ^{40}K in different dental ceramic materials and assessment of dose given to oral mucosa**
DURKAN R., GÜRBÜZ A., MURAT S., YÜCEL H.
RADIATION PHYSICS AND CHEMISTRY, vol.168, 2020 (SCI-Expanded)
- XII. **Consistency test of coincidence-summing calculation methods for extended sources**
Sima O., Ott A. D. V., Dias M. S., Dryak P., Ferreux L., Gurau D., Hurtado S., Jodlowski P., Karfopoulos K., Koskinas M. F., et al.
APPLIED RADIATION AND ISOTOPES, vol.155, 2020 (SCI-Expanded)
- XIII. **A novel approach in voltage transient technique for the measurement of electron mobility and mobility-lifetime product in CdZnTe detectors**
YÜCEL H., Birgul O., Uyar E., Cubukcu S.
NUCLEAR ENGINEERING AND TECHNOLOGY, vol.51, no.3, pp.731-737, 2019 (SCI-Expanded)
- XIV. **Efficiency calibration of a coaxial HPGe detector-Marinelli beaker geometry using an ^{152}Eu source prepared in epoxy matrix and its validation by efficiency transfer method**
YÜCEL H., Zumrut S., Nartturk R. B., Gedik G.
NUCLEAR ENGINEERING AND TECHNOLOGY, vol.51, no.2, pp.526-532, 2019 (SCI-Expanded)

- XV. **Investigation of thermal neutron detection capability of a CdZnTe detector in a mixed gamma-neutron radiation field**
YÜCEL H., Nartturk R. B., Zumrut S., Gedik G., KARADAĞ M.
NUKLEONIKA, vol.63, no.3, pp.59-64, 2018 (SCI-Expanded)
- XVI. **Standardization of Pr-142 activity concentration**
Yeltepe E., YÜCEL H.
APPLIED RADIATION AND ISOTOPES, vol.134, pp.263-268, 2018 (SCI-Expanded)
- XVII. **Methodology for determination of correction factors in direct gamma spectrometric measurement of radionuclides in sediments**
Uyar E., Yuksel A. O., Guven R., YÜCEL H.
INTERNATIONAL JOURNAL OF SEDIMENT RESEARCH, vol.32, no.3, pp.324-330, 2017 (SCI-Expanded)
- XVIII. **Characterization of paraffin based breast tissue equivalent phantom using a CdTe detector pulse height analysis**
Cubukcu S., YÜCEL H.
AUSTRALASIAN PHYSICAL & ENGINEERING SCIENCES IN MEDICINE, vol.39, no.4, pp.877-884, 2016 (SCI-Expanded)
- XIX. **Determination of effective resonance energy for the Ir-193(n,gamma)Ir-194 reaction by the cadmium ratio method**
BUDAK M. G., KARADAĞ M., YÜCEL H.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.373, pp.85-90, 2016 (SCI-Expanded)
- XX. **Measurement of Photo-Neutron Dose from an 18-MV Medical Linac Using a Foil Activation Method in View of Radiation Protection of Patients**
YÜCEL H., ÇOBANBAŞ İ., Kolbasi A., Yuksel A. O., KAYA V.
NUCLEAR ENGINEERING AND TECHNOLOGY, vol.48, no.2, pp.525-532, 2016 (SCI-Expanded)
- XXI. **U-235 isotopic characterization of natural and enriched uranium materials by using multigroup analysis (MGA) method at a defined geometry using different absorbers and collimators**
YÜCEL H., Yeltepe E., Yuksel A. O., Dikmen H.
NUKLEONIKA, vol.60, no.3, pp.615-620, 2015 (SCI-Expanded)
- XXII. **An application of LSC method for the measurement of gross alpha and beta activities in spiked water and drinking water samples**
ÇAKAL G. Ö., Guven R. Y., YÜCEL H.
NUKLEONIKA, vol.60, no.3, pp.637-642, 2015 (SCI-Expanded)
- XXIII. **Determination of the energy dependence of the BC-408 plastic scintillation detector in medium energy x-ray beams**
YÜCEL H., Cubukcu S., Uyar E., Engin Y.
PHYSICS IN MEDICINE AND BIOLOGY, vol.59, no.22, pp.6749-6758, 2014 (SCI-Expanded)
- XXIV. **Characterization of neutron flux spectra in the irradiation sites of a 37 GBq Am-241-Be isotopic source**
YÜCEL H., BUDAK M. G., KARADAĞ M., Yuksel A. O.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.338, pp.139-144, 2014 (SCI-Expanded)
- XXV. **Measurement of thermal neutron cross section and resonance integral for the Gd-158(n, gamma)Gd-159 reaction by using a Mn-55 monitor**
KARADAĞ M., BUDAK M. G., YÜCEL H.
ANNALS OF NUCLEAR ENERGY, vol.63, pp.199-204, 2014 (SCI-Expanded)
- XXVI. **Measurements on the spectroscopic performance of CdZnTe coplanar grid detectors**
YÜCEL H., Uyar E., Esen A. N.
APPLIED RADIATION AND ISOTOPES, vol.70, no.8, pp.1608-1615, 2012 (SCI-Expanded)
- XXVII. **Experimental determination of effective resonance energies for Gd-158(n,gamma)Gd-159 and Hf-179(n,gamma)Hf-180m reactions**

- BUDAK M. G., KARADAĞ M., YÜCEL H.
ANNALS OF NUCLEAR ENERGY, vol.38, no.11, pp.2550-2556, 2011 (SCI-Expanded)
- XXVIII. **Correction methodology for the spectral interfering gamma-rays overlapping to the analytical peaks used in the analysis of Th-232**
YÜCEL H., Kose E., Esen A. N., Bor D.
APPLIED RADIATION AND ISOTOPES, vol.69, no.6, pp.890-897, 2011 (SCI-Expanded)
- XXIX. **Determination of effective resonance energies for the (n,γ) reactions of Sm-152 and Ho-165 by using dual monitors**
Budak M. G., Karadag M., YÜCEL H.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.268, no.17-18, pp.2578-2584, 2010 (SCI-Expanded)
- XXX. **True coincidence-summing corrections for the coincident gamma-rays measured with coplanar grid CdZnTe detectors**
YÜCEL H., Solmaz A. N., Kose E., Bor D.
APPLIED RADIATION AND ISOTOPES, vol.68, no.6, pp.1040-1048, 2010 (SCI-Expanded)
- XXXI. **Methods for spectral interference corrections for direct measurements of U-234 and Th-230 in materials by gamma-ray spectrometry**
YÜCEL H., Solmaz A. N., Kose E., Bor D.
RADIATION PROTECTION DOSIMETRY, vol.138, no.3, pp.264-277, 2010 (SCI-Expanded)
- XXXII. **A semi-empirical method for calculation of true coincidence corrections for the case of a close-in detection in gamma-ray spectrometry**
YÜCEL H., Solmaz A. N., Kose E., Bor D.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.283, no.2, pp.305-312, 2010 (SCI-Expanded)
- XXXIII. **Spectral interference corrections for the measurement of U-238 in materials rich in thorium by a high resolution gamma-ray spectrometry**
YÜCEL H., Solmaz A. N., Kose E., Bor D.
APPLIED RADIATION AND ISOTOPES, vol.67, no.11, pp.2049-2056, 2009 (SCI-Expanded)
- XXXIV. **Virtual photon interaction depths of CdZnTe detectors in the energy range of 50-662 keV**
Yuecel H., Solmaz A. N., Bor D.
Journal of Radioanalytical and Nuclear Chemistry, vol.280, no.3, pp.569-575, 2009 (SCI-Expanded)
- XXXV. **Uranium enrichment measurements using the intensity ratios of self-fluorescence X-rays to 92(*) keV gamma ray in UXK alpha spectral region**
YÜCEL H., Dikmen H.
TALANTA, vol.78, no.2, pp.410-417, 2009 (SCI-Expanded)
- XXXVI. **DETECTION EFFICIENCY OF CdZnTe DETECTOR IN THE RANGE OF 30-670 keV GAMMA RAY ENERGY FOR A DISC SOURCE GEOMETRY**
YÜCEL H., Solmaz A. N., Kurt A., Inal T., Bor D.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.23, no.3, pp.699-707, 2008 (SCI-Expanded)
- XXXVII. **Experimental determination of effective resonance energies for the (n,γ) reactions of 71Ga, 75As, 164Dy, 170Er by the cadmium ratio method**
Budak M. G., Yuecel H., Karadag M., TAN M. Ö.
Annals of Nuclear Energy, vol.35, no.8, pp.1433-1439, 2008 (SCI-Expanded)
- XXXVIII. **Measurement of thermal neutron cross-section and resonance integral for the Yb-174(n,γ)Yb-175 reaction by the cadmium ratio method**
KARADAĞ M., Yuecel H.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.266, no.11, pp.2549-2555, 2008 (SCI-Expanded)
- XXXIX. **The applicability of MGA method for depleted and natural uranium isotopic analysis in the presence of actinides (Th-232, Np-237, Pa-233 and Am-241)**
YÜCEL H.

APPLIED RADIATION AND ISOTOPES, vol.65, no.11, pp.1269-1280, 2007 (SCI-Expanded)

- XL. **Measurement of thermal neutron cross section and resonance integral for the Er-170(n,gamma)Er-171 reaction by using a Mn-55 monitor**
YÜCEL H., Budak M. G., Karadag M.
PHYSICAL REVIEW C, vol.76, no.3, 2007 (SCI-Expanded)
- XLI. **Natural radioactivity measurement in pumice samples used raw materials in Turkey**
Turhan S., YÜCEL H., Gunduz L., Sahin S., Vural M., Parmaksiz A., Demircioglu B.
APPLIED RADIATION AND ISOTOPES, vol.65, no.3, pp.350-354, 2007 (SCI-Expanded)
- XLII. **Measurement of thermal neutron cross section and resonance integral for (n,gamma) reaction in Sm-152**
Karadag M., YÜCEL H., Budak M. G.
ANNALS OF NUCLEAR ENERGY, vol.34, no.3, pp.188-193, 2007 (SCI-Expanded)
- XLIII. **Sample geometry and efficiency determination of bremsstrahlung radiation of Sr-90 on gamma detection systems**
Turhan S., Zararsiz A., YÜCEL H.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.269, no.1, pp.141-145, 2006 (SCI-Expanded)
- XLIV. **Thermal neutron cross-section and resonance integral for Dy-164(n,gamma) Dy-165 reaction**
Karadag M., YÜCEL H.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.550, no.3, pp.626-636, 2005 (SCI-Expanded)
- XLV. **Measurement of thermal neutron cross section and resonance integral for Ho-165(n,gamma)Ho-166g reaction by the activation method**
YÜCEL H., Karadag M.
ANNALS OF NUCLEAR ENERGY, vol.32, no.1, pp.1-11, 2005 (SCI-Expanded)
- XLVI. **Measurement of thermal neutron cross-section and resonance integral for W-186 (n, gamma)W-187 reaction by the activation method using a single monitor**
Karadag M., YÜCEL H.
ANNALS OF NUCLEAR ENERGY, vol.31, no.11, pp.1285-1297, 2004 (SCI-Expanded)
- XLVII. **Experimental determination of the alpha-shape factor in the 1/E1+alpha epithermal-isotopic neutron source-spectrum by dual monitor method**
YÜCEL H., Karadag M.
ANNALS OF NUCLEAR ENERGY, vol.31, no.6, pp.681-695, 2004 (SCI-Expanded)
- XLVIII. **Prompt gamma neutron activation analysis of boron with a Am-241-Be neutron source**
Turhan S., YÜCEL H., Demirbas A.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.262, no.3, pp.661-664, 2004 (SCI-Expanded)
- XLIX. **Establishment of a quality system for nuclear analytical laboratories**
Arikan P., Acar O., Acar R., Aycik G., Cetiner M., Demirel H., Efe N., Golge T., Gurellier R., Kirmaz R., et al.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.259, no.3, pp.391-394, 2004 (SCI-Expanded)
- L. **Measurement of absolute intensity of 1001 keV gamma-ray of (234)mPa**
YÜCEL H., Karadeniz H., Cetiner M., Demirel H., Turhan S.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.258, no.2, pp.445-447, 2003 (SCI-Expanded)
- LI. **Measurement of thermal neutron cross-sections and resonance integrals for Ga-71(n, gamma)Ga-72 and As-75(n, gamma)As-76 by using Am-241-Be isotopic neutron source**
Karadag M., YÜCEL H., Tan M., Ozmen A.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.501, no.2-3, pp.524-535, 2003 (SCI-Expanded)
- LII. **Use of the 1001 keV peak of Pa-234m daughter of U-238 in measurement of uranium concentration by HPGe gamma-ray spectrometry**
YÜCEL H., Cetiner M., Demirel H.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.413, no.1, pp.74-82, 1998 (SCI-Expanded)

- LIII. **Automation of a pneumatic system by controlling a microcomputer equipped with a custom add on board for neutron activation analysis**
Cetiner M., Demirel H., Demirbas A., YÜCEL H., Celenk I.
APPLIED RADIATION AND ISOTOPES, vol.48, no.3, pp.397-402, 1997 (SCI-Expanded)
- LIV. **Dependence of photon interaction depth on linear attenuation coefficient in high pure germanium detectors**
YÜCEL H., Cetiner M., Demirel H.
APPLIED RADIATION AND ISOTOPES, vol.47, no.5-6, pp.535-541, 1996 (SCI-Expanded)
- LV. **Sorption and migration of Cs-137 attached to organic materials of tea in silty clay soil**
YÜCEL H., Ozmen A.
RADIATION PHYSICS AND CHEMISTRY, vol.47, no.1, pp.117-123, 1996 (SCI-Expanded)
- LVI. **MIGRATION OF CS-137 EXTRACTED FROM CONTAMINATED TEA IN SANDY CLAY SOIL**
YÜCEL H., OZMEN A.
JOURNAL OF NUCLEAR SCIENCE AND TECHNOLOGY, vol.32, no.6, pp.547-555, 1995 (SCI-Expanded)

Articles Published in Other Journals

- I. **INVESTIGATION OF EBT3 RADIOCHROMIC FILM RESPONSE IN A HIGH-DOSE RANGE OF 6 MV PHOTON AND 6 MEV ELECTRON BEAMS USING A THREE-COLOR FLATBED SCANNER**
DURUER K., ETİZ D., YÜCEL H.
EAST EUROPEAN JOURNAL OF PHYSICS, vol.2020, no.3, pp.11-18, 2020 (ESCI)
- II. **Measurement of the attenuation properties of the protective materials used as a thyroid guard and apron for personnel protection against diagnostic medical X-rays**
YÜCEL H., Güllüoğlu E., Çubukçu S., ÜNCÜ Y. A.
Journal of Physical Science, vol.27, no.1, pp.111-128, 2016 (Scopus)
- III. **Radyolojik Doz Değerlendirmesi**
YÜCEL H.
TSE Standard Akademi Ekonomik ve Teknik Dergi, vol.54, no.631, pp.45-51, 2015 (Non Peer-Reviewed Journal)
- IV. **Nükleer Adli Bilim ve İnceleme Konuları Nuclear Forensics and its investigation topics**
YÜCEL H., ÇAKAL G. Ö., YÜKSEL A. Ö., KURT R., UYAR E., Güven S., HANCI İ. H.
Adli Bilimler Dergisi, vol.12, no.1, pp.37-48, 2013 (Peer-Reviewed Journal)
- V. **Nükleer Adli Bilim ve İnceleme Konuları**
YÜCEL H., ÇAKAL G. Ö., Yüksel A. Ö., Kurt R., UYAR E., Güven S., HANCI İ. H.
Adli Bilimler Dergisi, vol.12, no.1, pp.37-48, 2013 (Peer-Reviewed Journal)
- VI. **Detection efficiency of CdZnTe detector in the range of 30-670 keV gamma ray energy for a disc source geometry Disk kaynak geometrisi için 30-670 keV gama ışını enerji aralığında CdZnTe detektörünün dedeksiyon verimi**
YÜCEL H., SOLMAZ A. N., KURT A., İNAL T., BOR D.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.23, no.3, pp.699-707, 2008 (Scopus)
- VII. **Detection efficiency of CdZnTe detector in the range of 30-670 keV gamma ray energy for a disc source geometry, Disk kaynak geometrisi için 30-670 keV gama ışını enerji aralığında CdZnTe detektörünün dedeksiyon verimi**
Yücel H., Solmaz A., Kurt A., Inal T., Bor D.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.23, pp.699-707, 2008 (Scopus)
- VIII. **DİSK KAYNAK GEOMETRİSİ İÇİN 30-670 keV GAMA IŞINI ENERJİ ARALIĞINDA CdZnTe DETEKTÖRÜNÜN DEDEKSİYON VERİMİ**
Yücel H.
Gazi Üniv. Müh. Mim. Fak. Der., vol.23, no.3, pp.699-707, 2008 (Peer-Reviewed Journal)
- IX. **Sorption and Migration of ¹³⁷Cs attached to Organic Materials of Tea in Silty Clay Soil**
YÜCEL H., ÖZMEN A.

RADIATION PHYSICS AND CHEMISTRY, vol.47, no.2, pp.117-123, 1996 (Scopus)

- X. **Sorption and migration of ^{137}Cs attached to organic materials of tea in silty clay soil**
Yücel H., Özmen A.
Elsevier Science Ltd, vol.47, no.1, pp.117-123, 1996 (Peer-Reviewed Journal)
- XI. **Migration of ^{137}Cs extracted from contaminated tea in sandy clay soil**
YÜCEL H., ÖZMEN A.
Journal of Nuclear Science and Technology, vol.32, no.6, pp.547-555, 1995 (Scopus)

Books & Book Chapters

- I. **Efficiency calibration of a well-type Ge detector for voluminous samples in cylindrical geometry**
ESEN A. N., BOR M. D., YÜCEL H.
in: NATO Science for Peace and Security Series B Physics and Biophysics, Aycik Gül Asiye, Editor, Springer Science + Business Media B.V., pp.193-205, 2009

Refereed Congress / Symposium Publications in Proceedings

- I. **Radionuclide Identification Algorithms used for Medium Energy Resolution Scintillators for the detection of Radiological and Nuclear Materials in Nuclear Security**
Yücel H.
High-k Dielectric RADFET for Detection of RN Treats", funded by NATO – Science for Peace and Security Programme (SPS Project G5974), Nish, Serbia, 5 - 07 November 2024
- II. **An Overview of Isotope Identification Algorithms Used in Radionuclide Identification Devices (RID) Based on Medium Energy Resolution Detectors: Detection of Radioactive/Nuclear Material and Radionuclide Categorization in Nuclear Security**
Yücel H.
International Conference on Nuclear Security: Shaping the Future, IAEA CN-321/EVT2300037, Vienna, Austria, 20 - 24 May 2024, no.17
- III. **Gamma Spectrometric Methods for Uranium Isotopic Enrichment Analysis and Implication of Peak Interference for SNM categorization in RIIDs**
Yücel H.
3rd Technical Meeting on Radiation Detection Instruments for Nuclear Security: Trends, Challenges and Opportunities, Vienna, Austria, 14 - 18 August 2023
- IV. **Geochronology and historical records of heavy metals in the marine sediments from western part of Black Sea Coastal Area, Varna/Bulgaria**
Yaprak G., Sert İ., Obhodas J., Slavva K., Kalaycı Y., Dirican A., Yücel H.
13th International SedNet Conference, 6-8 Sept 2023, Lisbon, Portugal, 6 - 08 September 2023, pp.70
- V. **Heavy metal pollution history in marine sediments from Bosphorus and İstanbul's Black Sea coastal area by ^{210}Pb and ^{137}Cs chronology**
YAPRAK G., SERT İ., OBHODAS J., LAPTYEV G., AYTAŞ Ş., DEMİREL A. S., YAŞAR D., SAZAK H. S., GÜRLEYEN S., YÜCEL H., et al.
INTERNATIONAL CONFERENCE ON RADIATION APPLICATIONS (RAP 2023) May 29–June 2, 2023 | Hellenic Centre for Marine Research (HCMR) | Anavyssos, Attica, Greece | www.rap-conference.org, Atina, Greece, 29 May - 02 June 2023, pp.70
- VI. **Identification and Categorization in Hand-held Spectrometric Radioisotope Identifiers**
Yücel H.
Technical Meeting Performance Testing and Specification of Spectroscopic and Energy Discrimination Algorithms Used for Nuclear Security, Cairo, Egypt, 21 - 25 May 2023
- VII. **The need for replacement of ^{137}Cs - blood irradiators by X-ray devices in parallel to technically**

advancements: Investigation of the blood irradiators in Turkiye in terms of source safety and security

Yücel H., Pomper M.

CN-295/EVT2001738 "International Conference on Safety and Security of Radioactive Sources: Accomplishments and Future Endeavours, Vienna, Austria, 20 - 25 June 2022

- VIII. **Epoksi Esaslı Doku Eşdeğeri Fantomların Pediatrik Radyolojide Uygunluğunun İncelenmesi**
YÜCEL H., SAFİ A.
DYUK'22 I. Disiplinlerarası Yaklaşımlar Ulusal Kongresi, İstanbul, Turkey, 16 May 2022, pp.24-25
- IX. **Investigation of Homogeneity of Dose Given to Blood in 137Cs Source Blood Irradiator Device by Radiochromic Film Dosimetry and Evaluation of Alternative Irradiation Devices (137Cs Kaynaklı Kan Işınlayıcı Cihazda Kana Verilen Doz Homojenliğinin Radyokromik Film Dozimetrisi ile İncelenmesi ve Alternatif Işınlama Cihazlarının Değerlendirilmesi)**
Yılmaz Alan H., Yücel H., Ünal G., Atakul T.
DYUK 22:I. Disiplinlerarası Yaklaşımlar Ulusal Kongresi, İstanbul, Turkey, 16 May 2022, pp.20
- X. **Potential and Barriers to Use of Sc-43, Sc-44 and Sc-47 Radioisotopes in Nuclear Medicine (Nükleer Tıpta Sc-43, Sc-44 ve Sc-47 Radyoizotoplarının Kullanılma Potansiyeli ve Kullanıma Engel Etmenler)**
SAFİ A., YÜCEL H.
DYUK 22:I. Disiplinlerarası Yaklaşımlar Ulusal Kongresi, İstanbul, Turkey, 16 May 2022, pp.26
- XI. **Doku Eşdeğeri Fantom Üretiminde Radyoduyarlılık Katsayıları Açısından SLA ve FDM 3D Yazıcı Tekniklerinin İncelenmesi**
YÜCEL H., GÖKÇEK N., ÜNAL G., İLTEMİŞ C.
DYUK2022: I. DİSİPLİNLERARASI YAKLAŞIMLAR ULUSAL KONGRESİ, İstanbul, Turkey, 16 May 2022, pp.55-56
- XII. **Use of radiation detection instruments in laboratory practice for nuclear security education**
YÜCEL H., Narttürk R. B., BALCI S., SAATÇI S., BARUT A., KAPLAN N. C., DİRİK M. A., Güven R., Yeltepe E.
International Conference on Nuclear Security: Sustaining and Strengthening Efforts, Vienna, Austria, 10 - 14 February 2020, vol.57
- XIII. **Investigation of radioisotope sources masking effects on uranium gamma-ray spectra in determining of 235U abundance in uranium samples**
YÜCEL H., Narttürk R. B., BALCI S., SAATÇI S., BARUT A., KAPLAN N. C., DİRİK M. A., Güven R., Yeltepe E.
International Conference on Nuclear Security: Sustaining and Strengthening Efforts, Vienna, Austria, 10 - 14 February 2020, vol.145
- XIV. **Investigation of EBT3 radiochromic film behaviour in high dose range of 6 MV photon and 6 MeV electron beams by employing the most suitable scanning channel of three-color flatbed scanner**
DURUER K., ETİZ D., YÜCEL H.
RAD7- Seventh International Conference on Radiation in various fields of research, Herceg Novi, Montenegro, 10 - 14 June 2019, vol.135
- XV. **Beylikova Kompleks Cevher Sahasından Elde Edilen Numunelerde Radyoaktivite İçeriğinin Belirlenmesi ve NTE Madenciliğinde Olası Doz Seviyelerinin Tahmini**
YÜCEL H., ÖVÜÇ S., AKKAYA G., ÇAKMAK Ş.
1. Nadir Toprak Elementleri ve Toryum Çalıştayı, Eskişehir, Turkey, 11 - 12 June 2019
- XVI. **The importance of correction factors for the measurement of some radionuclides in sediment and coastal sand samples by HPGe detector**
YÜCEL H., KURT R., DEMİREL İ.
11th International SedNet Conference "Sediments as a dynamic natural resource - from catchment to open sea" 3-5 April 2019 Dubrovnik, Croatia, Dubrovnik, Croatia, 3 - 05 April 2019, pp.101
- XVII. **Determination of Manganese Content in Some Commercial Manganese Ores in Turkey k(0)-NAA Standardization Method Using Am-241-Be Isotopic Neutron**
AKKAYA G., YÜCEL H., BUDAK M. G.
10th Jubilee Conference of the Balkan-Physical-Union (BPU), Sofija, Bulgaria, 26 - 30 August 2018, vol.2075
- XVIII. **A perspective on lessons learned on use of radiation detection instruments for nuclear security education**

YÜCEL H.

International Conference on Security of Radioactive Material: The Way Forward for Prevention and Detection, Viyana, Austria, 3 - 07 December 2018

- XIX. **Elevation potential of ^{226}Ra and ^{210}Pb radionuclides in river basins, estuaries and coastal areas due to by-product phosphogypsum of phosphate fertilizer industry**
YÜCEL H.
Regional workshop on identification of data gaps in the Adriatic and the Black Sea and harmonization of field sampling strategies for strengthening regional capacities in coastal management, Varna, Bulgaria, 25 - 27 September 2018
- XX. **Determination of manganese content in some commercial manganese ores in Turkey k 0 -NAA standardization method using ^{241}Am -Be isotopic neutron source**
AKKAYA G., BUDAK M. G., YÜCEL H.
10th Jubilee International Conference of the Balkan Physical Union AIP Conf. Proc. 2075, 070005-1-070005-4 <https://doi.org/10.1063/1.5091196> Published by AIP Publishing, Sofia, Bulgaria, Bulgaria, 26 - 30 August 2018
- XXI. **Determination of ^{235}U isotopic abundance from the intensities of the de-convoluted 94.6 keV and 98.4 keV self-induced X-rays to gamma-rays from uranium spectra measured by HPGe gamma-ray spectroscopy**
YÜCEL H., NARTTÜRK B., YELTEPE E., BALCI S., YILMAZ S.
2nd Technical Meeting on Radiation Detection Instruments for Nuclear Security: Trends, Challenges and Opportunities, Viyana, Austria, 16 - 20 April 2018
- XXII. **Assessment of educational approaches to strength the physical protection regime of Turkey from point of view nuclear security culture**
YÜCEL H., NARTTÜRK R. B.
International Conference on Physical Protection of Nuclear Material and Nuclear Facilities, VIYANA, Austria, 13 - 17 November 2017
- XXIII. **Preparation of epoxy resin based- gamma ray source from ^{152}Eu and their characterization using efficiency transfer functions implemented in ANGLE 4 and MEFFTRAN**
YÜCEL H., ZÜMRÜT S., NARTTÜRK R. B., GEDİK G.
NUTECH-2017 International conference on Developments and Applications of Nuclear Technologies, Krakow, Poland, 10- 13 September 2017, Krakow, Poland, 10 - 13 September 2017
- XXIV. **DETERMINATION OF OPTIMUM PARAMETERS FOR ^{241}Am ALPHA SOURCE PREPARATION BY ELECTRODEPOSITION METHOD**
YÜCEL H., ÇAKAL G. Ö., GÜVEN R., LIMON S.
NUTECH-2017 International Conference on Developments and Applications of Nuclear Technologies Kraków, 10-13 September, Krakow, Poland, 10 - 13 September 2017
- XXV. **Investigation of thermal neutron detection capability of a CdZnTe semiconductor detector in a mixed gamma-neutron field**
YÜCEL H., NARTTÜRK R. B., ZÜMRÜT S., GEDİK G., KARADAĞ M.
NUTECH-2017 International Conference on Developments and Applications of Nuclear Technologies Kraków, 10-13 September, Krakow, Poland, 10 - 13 September 2017
- XXVI. **Kızılcahamam ve Çamlıdere İlçelerinin Radyoaktif Kirliliğinin Pseudevernia furfuracea (L.) Zopf Liken Türüyle Biyoizlenmesi**
GÜRSU G., YILDIZ A., YÜCEL H.
Ankara Üniversitesi 5. Çevre Günleri Uluslararası Sempozyumu. İnsanların Doğayla Kenetlenmesi-Kentte ve Doğal Alanda Kutuplardan Ekvatora, 8 - 09 June 2017
- XXVII. **Standardization of ^{142}Pr activity concentration using CIEMAT/NIST efficiency tracing method**
YÜCEL H., YELTEPE E.
21st International Conference on Radionuclide Metrology, BEUNES AIRES, Argentina, 15 - 19 May 2017, pp.100
- XXVIII. **Standard source preparation from cellulose matrix for the detection efficiency measurement used for the analysis of environmental samples**
ZÜMRÜT S., NARTTÜRK R. B., GEDİK G., YÜCEL H.

- 3rd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology TESNAT 2017, Adana Çukurova University, Adana, Turkey, 10 - 12 May 2017, pp.213
- XXIX. **An application of LSC technique to determine $^{90}\text{Sr}/^{90}\text{Y}$ radionuclides in dry tea samples**
ÇAKAL G. Ö., GÜVEN R., YÜCEL H.
3rd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Adana, Turkey, 10 - 12 May 2017
- XXX. **Measurement of shielding effectiveness of autoclaved aerated concrete for its use in diagnostic x-ray facilities and industrial facilities**
NARTTÜRK R. B., KAVALCI T., ÇUBUKÇU Ş., GEDİK G., ZÜMRÜT S., YÜCEL H.
3rd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Adana, Turkey, 10 - 12 May 2017
- XXXI. **Comparison of BIRADS 4th edition and BIRADS 5th edition density scale for healthy breast images for estimation of mean glandular dose**
GEDİK G., NARTTÜRK R. B., ÇUBUKÇU Ş., BİRGÜL Ö., DÜŞÜNCELİ ATMAN E., YÜCEL H.
3rd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Adana, Turkey, 10 - 12 May 2017, pp.203
- XXXII. **Standardization of ^{170}Tm with CIEMAT/NIST efficiency tracing, TDCR and gamma spectrometric methods**
Yeltepe E., YÜCEL H., Kossert K.
An International conference on advances in Liquid Scintillation Spectrometry, Copenhagen, Denmark, 1 - 05 May 2017, pp.106-107
- XXXIII. **Türkiye’de Nükleer Emniyet ve Nükleer Güvence Denetimine İlişkin Durumun Değerlendirilmesi (Present status of Nuclear Safeguards and Nuclear Security Activities in Turkey)**
YÜCEL H.
Workshop on Turkey-Ukraine Nuclear Education Cooperation, 20-21.02.2017_H. Yücel, Ankara, Turkey, 20 - 21 February 2017
- XXXIV. **Detection and Measurement Capacity for Nuclear Material Characterization in Nuclear Security Regime of Turkey**
YÜCEL H.
International Conference on Nuclear Security: Commitments and Actions, Vienna, Austria, 5 - 09 December 2016
- XXXV. **Status of Nuclear Science Education and Needs to Competency Based Education at the Beginning of Nuclear Power Programme**
YÜCEL H.
Third International Conference on Nuclear Knowledge Management: Challenges and Approaches, Vienna, Austria, 7 - 11 November 2016
- XXXVI. **Radyonüklit Analizi Yeterlik Deneyleri İçin Çeşitli Çevresel Örneklerde Uygulanan Gama Spektrometrik Yöntemler**
YÜCEL H., NARTTÜRK R. B., ZÜMRÜT S., GEDİK G., ÇUBUKÇU Ş., KARADAĞ M.
XI. Nükleer Bilimler ve Teknolojileri Kongresi, İzmir, Turkey, 12 - 14 October 2016
- XXXVII. **Gama Spektrometrik Yöntemle Uranyum ve Toryum Cevher Örneklerinin Karakterizasyonu**
UYAR E., YÜCEL H.
XI. Nükleer Bilimler ve Teknolojileri Kongresi, İzmir, Turkey, 12 - 14 October 2016
- XXXVIII. **Measurement of Gross Alpha And Beta Activities in Drinking Water by Using Liquid Scintillation Counting LSC Technique and Proportional Counter**
Güven R., ÇAKAL G. Ö., YÜCEL H.
International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, 28 - 30 April 2016
- XXXIX. **Measurement of Gross Alpha and Beta Activities in Drinking Water in Ankara by Using Low Level Liquid Scintillation and Gas Proportional Counting Methods**
GÜVEN R., ÇAKAL G. Ö., YÜCEL H.
TESNAT2016-Theoretical and Experimental Studies in Nuclear Applications and Technology, Hatay, Turkey, 28 - 30

April 2016

- XL. **A CdZnTe Semiconductor Used as a Versatile Neutron Detection Device in a Mixed Gamma Neutron Fields**
YÜCEL H., NARTTÜRK R. B., ZÜMRÜT S., YEĞİN G., ÇUBUKÇU Ş., KARADAĞ M.
TESNAT2016-2nd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Hatay, Turkey, 28 - 30 April 2016
- XLl. **Measurement of Thermal Neutron and Resonance Integral Cross Section for the ^{193}Ir n ^{194}Ir Reaction**
BUDAK M. G., KARADAĞ M., YÜCEL H.
TESNAT2016-2nd Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology 2nd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Hatay, Turkey, 28 - 30 April 2016, pp.84-89
- XLII. **X IŞINLARINA KARŞI KORUYUCU GÖREV YAPAN TİROİD KORUYUCU VE KURŞUN ÖNLÜK YAPIMINDA KULLANILAN MALZEMELERİN ZAYIFLATMA ÖZELLİKLERİNİN BELİRLENMESİ**
YÜCEL H., Güllüoğlu E., ÇUBUKÇU Ş., ÜNCÜ Y. A.
I. Ulusal Radyasyondan Korunma Kongresi, Ankara, Turkey, 19 - 21 November 2015
- XLIII. **RADYASYON ZIRH MALZEMELERİNDE SON GELİŞMELER**
YÜCEL H.
I. Ulusal Radyasyondan Korunma Kongresi, Ankara, Turkey, 19 - 21 November 2015
- XLIV. **Determination of radioactivity content in ceramic tile and marble samples used for covering materials in buildings using gamma spectrometric method for radiation dose assessment**
YÜCEL H., Gökmen H., UYAR E.
3rd International Conference on Po and Radioactive Pb Isotopes, İzmir, Turkey, 11 - 14 October 2015, pp.143
- XLV. **Measurement of ^{210}Pb and ^{210}Po Activity Concentrations in Certified Lagoon Sediment and Moss Soil by using LSC and Alpha Particle Spectrometry**
ÇAKAL G. Ö., Limon S., Güven R., YÜCEL H.
Third International Conference on Po and Radioactive Pb Isotopes, INCO-PoPb-2015, 11 - 14 October 2015, pp.79
- XLVI. **Development of breast tissue equivalent phantom made from paraffin with some additives and its characterization by using x ray spectroscopy**
ÇUBUKÇU Ş., YÜCEL H.
ECR 2015 -European Radiology Conference, 4-8 March 2015, Vienna, Austria, Vienna, Austria, 4 - 08 March 2015, pp.1-12
- XLVII. **^{235}U ISOTOPIC CHARACTERIZATION OF NATURAL AND ENRICHED URANIUM MATERIALS BY USING MULTIGROUP GAMMA RAY METHOD WITH A PLANAR Ge DETECTOR**
YÜCEL H., YELTEPE E., YÜKSEL A. Ö., DİKMEN H.
The International Conference on Development and Application of Nuclear Technologies (NUTECH2014) 21-24.09.2014, Warsaw, Poland, Varşova, Poland, 21 - 24 September 2014
- XLVIII. **An Application of LSC Method for the Measurement of Gross Alpha and Beta Activities in Spiked Water and Drinking Water Samples**
ÇAKAL G. Ö., Güven R., YÜCEL H.
NUTECH-2014, International Conference on Development and Applications of Nuclear Technologies, Poland, 21 - 24 September 2014
- XLIX. **EFFICIENCY CALIBRATION OF A WELL-TYPE Ge DETECTOR FOR VOLUMINOUS SAMPLES IN CYLINDRICAL GEOMETRY**
Solmaz A. N., Bor D., Yucel H.
NATO Advanced Training Course in New Techniques for the Detection of Nuclear and Radioactive Agents, Muğla, Turkey, 26 - 30 May 2008, pp.193-194
- L. **Comparison of the activity results measured in the well type HPGe detector by using radionuclide specific and absolute efficiency calibrations**
ESEN A. N., UYAR E., BOR M. D., YÜCEL H.
V. Eurasian Conference on Nuclear Science and Its Applications, pp.77-78, Ankara, Turkey, 14 - 17 October 2008,

vol.39, pp.302

- LI. Efficiency calibration of a well type Ge detector for voluminous samples in cylindrical geometry**
ESEN A. N., BOR M. D., YÜCEL H.
NATO Science and Security Series B. Physics and Biophysics titled "New Techniques for the Detection of Nuclear and Radioactive Agents,193-205 (2009), Springer ScienceBusiness Media B.V., , NATO-ATC, Muğla University, Muğla, Turkey., Muğla, Turkey, 26 - 28 May 2008, pp.193-205
- LII. Measurement of natural radioactivity in phosphogypsum by high resolution gamma ray spectrometry**
YÜCEL H., Demirel H., Parmaksiz A., Karadeniz H., Cakir L., Cetiner B., Zararsiz A., Kaplan M., Ozgur S., Kislal H., et al.
NATO Advanced Research Workshop on Radiation Safety Problems in the Caspian Region, Baku, Azerbaijan, 11 - 14 September 2003, vol.41, pp.197-204
- LIII. Low level radioactivity measurements of U-238, Th-232, K-40 and Cs-137 in the environmental and industrial samples by high resolution gamma-ray spectrometry**
YÜCEL H., Demirel H., Karadeniz H., Cetiner B., Parmaksiz A., Turhan S.
NATO Advanced Research Workshop on Environmental Protection Against Radioactive Pollution, Almaty, Kazakhstan, 16 - 19 September 2002, vol.33, pp.115-122
- LIV. A Gamma Spectrometric Method for Direct Measurement of Uranium Contents in Solid Samples**
YÜCEL H., ERGİN İ.
I. Eurasia Nuclear Science and Its Application, İzmir, Turkey, 23 - 27 October 2000, vol.2, pp.798-816

Other Publications

- I. 101535 İLERİ GAMA SPEKTROSKOPİ LABORATUVARI DENEY FÖYÜ**
Yücel H.
Experiment, pp.1-28, 2013

Supported Projects

- Yücel H., Saygı B., Özavcı D. E., Karanfil E. C., TUBITAK Project, Development of an Isotope Identifier Device (RID) Using Photopeak-Based Bayesian Statistics Method Using a Medium Energy Resolution CeBr₃ scintillation detector integrating with a Radiation Portal Monitor(RPM), 2025 - 2026
- Yücel H., Saygı B., Özavcı E., Yaşar D., TUBITAK Project, Doz Hızı Ölçerlerin ve Pasif Dozimetrelerin Beta Dozu Kalibrasyonunda Kullanılmak Üzere Otomatik Kaynak-90Sr/90Y Kontrollü Bir Radyometrik Bir Işınlama Sisteminin Tasarımı, Geliştirilmesi ve Kurulması, 2024 - 2025
- Safran S., Yücel H., Aşlar E., Other International Funding Programs, Enhancing the Capacities of Educational Institutions for the Sustainable use of Nuclear Technologies, 2022 - 2025
- Yücel H., Project Supported by Higher Education Institutions, ZnS(Ag) temelli nötron algılamının incelenmesi, dedektör benzetimi, tasarımı ve aktif bir nötron dedektör sisteminin geliştirilmesi, 2023 - 2024
- Yücel H., Akyürek S., Duru Birgi S., TUBITAK Project, Development of an anthropomorphic head & neck phantom for treatment planning system quality assurance of radiological x-ray units and external radiotherapy systems, and investigation of dose distributions in phantom by using plastic scintillator dosimetry(PSD) and radiochromic film dosimetry(RFD), 2022 - 2024
- Yücel H., Project Supported by Higher Education Institutions, KARADENİZ SEDİMANLARINDAKİ AĞIR METAL KİRLİLİĞİNİN 210Pb ve 137Cs KRONOLOJİSİ İLE İNCELENMESİ Heavy Metal Pollution History in Marine Sediments from Black Sea Derived from 210Pb and 137Cs Chronology (FKP-2020-20154), 2020 - 2023
- Yücel H., IAEA International Atomic Energy Agency Supportted Project, IAEA TC Project RER 7015- Enhancing Coastal Management in the Mediterranean, the Black Sea, Caspian Sea and the Aral Sea by Using Nuclear Analytical Techniques, 2020 - 2023
- Yücel H., IAEA International Atomic Energy Agency Supportted Project, Advancing Radiation Detection Equipment for

Detecting Nuclear and Other Radioactive Material out of Regulatory Control” koordineli araştırma projesi altında 2017ABH67390007 kodlu “Method Development for HPGe and CdZnTe detector Based Gamma Spectroscopic Determination of Isotropic Abundance in Nuclear Material Characterization” (Nükleer Madde Karakterizasyonunda U-235 İzotopik Bolluğunun HPGe ve CdZnTe Dedektörlü Gama Spektroskopisiyle Belirlenmesi) projesi, 2017 - 2023

Yücel H., TUBITAK Project, Brakiterapi Amaçlı Praseodim-142 Kaynağın Araştırma Reaktöründe Üretilmesi Ve Yeni Geliştirilecek Göz Ve Prostat Organ Spesifik Fantomlarda Verilen Doz Dağılımının Plastik Sintilatör Ve Radyokromik Film Dozimetrik Tekniklerle İncelenmesi, 2018 - 2021

Yücel H., IAEA International Atomic Energy Agency Supportted Project, TC project RER7009 on “Enhancing coastal management in the Adriatic and the Black Sea by using nuclear analytical techniques, 2018 - 2019

Yücel H., Other International Funding Programs, ABD Stanton Projesi Nükleer Güvenlik Denetimi ve Nükleer Emniyet, 2016 - 2019

Yücel H., Akkaya G., TUBITAK Project, 241Am-Be nötron kaynağı kullanarak $^{55}\text{Mn}(n,\gamma)^{56}\text{Mn}$ tepkimesi yardımıyla manganez cevherlerinin k α -NAA yöntemiyle incelenmesi ve silikon drift dedektörlü ED-XRF yöntemiyle karşılaştırılması, 2018 - 2018

Yücel H., TUBITAK Project, 116F308-Ters-Kuyulu Kap Sayım Geometrisinde ^{226}Ra , ^{152}Eu İçeren Epoksi Matriksli ve U, Th, K İçeren Selülöz Matrisli Radyoaktif Kalibrasyon Kaynaklarının Hazırlanması ve HPGe Dedektörlerle Karakterizasyonu, 2016 - 2018

Yücel H., Çakal G. Ö., TUBITAK Project, 115S108 Mamografi Sistemlerinin Kalite Kontrollerinde Kullanılması Amacıyla Doku Eşdeğeri Fantom Geliştirilmesi ve X Işını Spektroskopisi ile Karakterizasyonu, 2015 - 2018

YÜCEL H., DÜŞÜNCELİ ATMAN E., TUBITAK Project, Mammografi sistemlerinin kalite kontrollerinde kullanılması amacıyla doku eşdeğeri fantom geliştirilmesi ve x ışını spektroskopisi ile karakterizasyonu, 2015 - 2017

Yücel H., Yalçın A., Project Supported by Higher Education Institutions, Nükleer Bilimler Enstitüsü Laboratuvarlarının altyapılarının Güçlendirilmesi, 2012 - 2014

Yalçın A., Yücel H., Project Supported by Higher Education Institutions, Ankara Üniversitesi Nükleer Bilimler Enstitüsü Laboratuvarlarının Altyapılarının Güçlendirilmesi, 2012 - 2014

YÜCEL H., Project Supported by Higher Education Institutions, Nükleer Bilimler Enstitüsü Laboratuvarlarında Sıvı Sintilasyon Ölçüm Sistemi İle Düşük Seviye Radyoaktivite Ölçüm Kapasitesinin Geliştirilmesi, 2012 - 2013

Çakal G. Ö., Yücel H., Project Supported by Higher Education Institutions, Nükleer Bilimler Enstitüsü Laboratuvarlarında Sıvı Sintilasyon Ölçüm Sistemi ile Düşük Seviye Radyoaktivite Ölçüm Kapasitesinin Geliştirilmesi, 2012 - 2013

YÜCEL H., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, DPT Projesi 2005K120130 Radyasyon Uygulamaları ve Teknolojileri Geliştirme Projesi 2007 2010 Proje Çalışanı, 2007 - 2010

Yücel H., Project Supported by Other Official Institutions, Ulusal Kuruluş TAEK tarafından desteklenen TAEK Hızlandırıcı Projesi DPT 99K 120 110 kodlu TAEK projesi 1999 2007, 1999 - 2007

Yücel H., Other International Funding Programs, Ulusal Kuruluş TAEK tarafından desteklenen İzotopik nötron kaynağı kullanarak ani gama nötron aktivasyon analiz sisteminin kurulması, 1999 - 2007

Yücel H., Project Supported by Other Official Institutions, Ulusal Kuruluş TAEK tarafından desteklenen Çernobil Kazası sonrası ^{137}Cs izotopunun toprak ile etkileşme mekanizmalarının incelenmesi TAEK projesi 1988 1990 Proje Yürütücüsü, 1989 - 1990

Yücel H., Other International Funding Programs, TAEK tarafından desteklenen İzotopik Gaz Karışımlarını Bileşenlerine Ayıran Bir Nozzle Cihazının Tasarımı ve Geliştirilmesi, 1987 - 1989

Patent

Yücel H., Referans Standart Radyoaktif Kaynakların Üretimi, Patent, CHAPTER G Physics, The Invention Registration Number: E-39616753-110-220954466 , Standard Registration, 2023

Yücel H., ÇİZGİSEL VE DİSK KAYNAK FORMUNDA Pr-142 ORTA DOZ HIZLI / YÜKSEK DOZ HIZLI BRAKİTERAPİ RADYOİZOTOP KAYNAK ÜRETİM YÖNTEMİ, Patent, CHAPTER G Physics, The Invention Registration Number: 2021 019623 , Standard Registration, 2021, 2024

Activities in Scientific Journals

Journal of Nuclear Sciences, First Editor, 2014 - Continues

Journal of Nuclear Sciences, First Editor, 2014 - Continues

Memberships / Tasks in Scientific Organizations

TÜRKAK- Türk Akreditasyon Kurumu, Member of Science Committee, 2010 - Continues, Turkey

Türk Standartları Enstitüsü, Chairman of the Scientific Committee, 2003 - Continues, Turkey

TMMOB-Fizik Mühendisleri Odası, Member, 1986 - Continues, Turkey

Scientific Refereeing

RADIATION PHYSICS AND CHEMISTRY, Journal Indexed in SCI-E, December 2024

RADIATION PHYSICS AND CHEMISTRY, Journal Indexed in SCI-E, December 2024

JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, Journal Indexed in SCI-E, December 2024

JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, Journal Indexed in SCI-E, December 2024

PHYSICS IN MEDICINE AND BIOLOGY, SCI Journal, December 2024

RADIATION PHYSICS AND CHEMISTRY, Journal Indexed in SCI-E, December 2024

PHYSICA SCRIPTA, Journal Indexed in SCI-E, November 2024

MATERIALS RESEARCH EXPRESS, Journal Indexed in SCI-E, November 2024

RADIATION PHYSICS AND CHEMISTRY, Journal Indexed in SCI-E, November 2024

APPLIED RADIATION AND ISOTOPES, Journal Indexed in SCI-E, October 2024

RADIATION PHYSICS AND CHEMISTRY, Journal Indexed in SCI-E, October 2024

RADIATION PHYSICS AND CHEMISTRY, Journal Indexed in SCI-E, October 2024

RADIATION PHYSICS AND CHEMISTRY, Journal Indexed in SCI-E, September 2024

BIOMEDICAL PHYSICS & ENGINEERING EXPRESS, Journal Indexed in ESCI, September 2024

RADIATION PHYSICS AND CHEMISTRY, Journal Indexed in SCI-E, August 2024

APPLIED RADIATION AND ISOTOPES, Journal Indexed in SCI-E, August 2024

RAP 2023 Proceedings Full Paper 032, Conference Paper (Full Text), July 2024

PHYSICS IN MEDICINE AND BIOLOGY, Journal Indexed in SCI-E, May 2024

NUCLEAR TECHNOLOGY, Journal Indexed in SCI-E, March 2024

PHYSICS IN MEDICINE AND BIOLOGY, Journal Indexed in SCI-E, March 2024

PHYSICS IN MEDICINE AND BIOLOGY, Journal Indexed in SCI-E, January 2024

RADIATION PHYSICS AND CHEMISTRY, Journal Indexed in SCI-E, January 2024

NUCLEAR ENGINEERING AND TECHNOLOGY, Journal Indexed in SCI-E, December 2023

NUCLEAR ENGINEERING AND TECHNOLOGY, Journal Indexed in SCI-E, December 2023

NUCLEAR ENGINEERING AND TECHNOLOGY, Journal Indexed in SCI-E, December 2023

PHYSICS IN MEDICINE AND BIOLOGY, Journal Indexed in SCI-E, December 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Ankara University, Turkey, December 2023

NUCLEAR TECHNOLOGY, Journal Indexed in SCI-E, November 2023

NUCLEAR ENGINEERING AND TECHNOLOGY, Journal Indexed in SCI-E, November 2023

NUCLEAR ENGINEERING AND TECHNOLOGY, Journal Indexed in SCI-E, November 2023

APPLIED RADIATION AND ISOTOPES, Journal Indexed in SCI-E, October 2023

6. Ulusal Hidrolojide İzotop Teknikleri Sempozyumu, DSİ TAKK(Teknik Araştırma ve Kalite Kontrol Dairesi Başkanlığı), 9-11 Ekim 2023, Artvin, Conference Paper (Full Text), October 2023

MATERIALS RESEARCH EXPRESS, Journal Indexed in SCI-E, October 2023

APPLIED RADIATION AND ISOTOPES, Journal Indexed in SCI-E, August 2023

NUCLEAR ENGINEERING AND TECHNOLOGY, Journal Indexed in SCI-E, July 2023
APPLIED RADIATION AND ISOTOPES, Journal Indexed in SCI-E, June 2023
NUCLEAR ENGINEERING AND TECHNOLOGY, Journal Indexed in SCI-E, June 2023
APPLIED RADIATION AND ISOTOPES, Journal Indexed in SCI-E, May 2023
MATERIALS RESEARCH EXPRESS, Journal Indexed in SCI-E, May 2023
TUBITAK Project, 2221 - Sabbatical Science Support P., Ankara University, Turkey, May 2023
NUCLEAR ENGINEERING AND TECHNOLOGY, Journal Indexed in SCI-E, April 2023
Project Supported by Other Official Institutions, SANAYİ VE TEKNOLOJİ BAKANLIĞI Ar-Ge Teşvikleri Genel Müdürlüğü, Turkey, April 2023
Scientific Publication, TÜBA (Türkiye Bilimler Akademisi), TÜBA-GEBİP Ödül Hakemliği, Turkey, April 2023
APPLIED RADIATION AND ISOTOPES, SCI Journal, January 2023
BOREN, Ulusal Bor Araştırma Enstitüsü Projesi, Ankara University, Turkey, November 2022
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Ankara University, Turkey, November 2022
APPLIED RADIATION AND ISOTOPES, Journal Indexed in SCI-E, June 2022
BIOMEDICAL PHYSICS & ENGINEERING EXPRESS, Journal Indexed in SCI-E, April 2022
TUBITAK Project, 1005 - National New Ideas and Products Research Support Program, Ankara University, Turkey, April 2022
TUBITAK Project, 1011 - International Scientific Research Projects Participation Program (UBAP), Ankara University, Turkey, April 2022
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Ankara University, Turkey, April 2022
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Ankara University, Turkey, April 2022
IEEE TRANSACTIONS ON NUCLEAR SCIENCE, Journal Indexed in SCI-E, March 2022
TUBITAK Project, 1005 - National New Ideas and Products Research Support Program, Ankara University, Turkey, March 2022
TUBITAK Project, 1005 - National New Ideas and Products Research Support Program, Ankara University, Turkey, March 2022
RADIATION PHYSICS AND CHEMISTRY, Journal Indexed in SCI-E, January 2022
MEDICAL PHYSICS, Journal Indexed in SCI-E, January 2022
Biomedical Physics and Engineering Express, Journal Indexed in SCI-E, January 2022
INTERNATIONAL JOURNAL OF PHYSICAL SCIENCES, Journal Indexed in SCI-E, January 2022
APPLIED RADIATION AND ISOTOPES, Journal Indexed in SCI-E, January 2022
JOURNAL OF STRATEGIC STUDIES, National Scientific Refreed Journal, January 2022
RADIATION MEASUREMENTS, Journal Indexed in SCI-E, January 2022
INTERNATIONAL JOURNAL OF SEDIMENT RESEARCH, Journal Indexed in SCI-E, January 2022
NUCLEAR INSTRUMENTS AND METHODS IN PHYSICS RESEARCH, SECTION A: ACCELERATORS, SPECTROMETERS, DETECTORS AND ASSOCIATED EQUIPMENT, Journal Indexed in SCI-E, January 2022
Mugla Journal of Science and Technology, National Scientific Refreed Journal, January 2022
PHYSICS IN MEDICINE AND BIOLOGY, Journal Indexed in SCI-E, January 2022
TURKISH JOURNAL OF ENGINEERING AND ENVIRONMENTAL SCIENCES, National Scientific Refreed Journal, January 2022
RADIATION PROTECTION DOSIMETRY, Journal Indexed in SCI-E, January 2022
NUCLEAR SCIENCE AND TECHNIQUES/HEWULI, Journal Indexed in SCI-E, January 2022
A.Ü. Adli Bilimler Dergisi (Journal of Nuclear Forensics), National Scientific Refreed Journal, January 2022
Journal of Radiation Research and Applied Sciences, Journal Indexed in SCI-E, January 2022
Theoretical and Applied Physics, Journal Indexed in SCI-E, January 2022
Turkish Journal Physics, National Scientific Refreed Journal, January 2022
NUKLEONIKA, Journal Indexed in SCI-E, January 2022
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, Journal Indexed in SCI-E, January 2022

Türk Yer Bilimleri Dergisi, National Scientific Refreed Journal, January 2022

NUCLEAR ENGINEERING AND TECHNOLOGY, Journal Indexed in SCI-E, January 2022

BOREN, Ulusal Bor Araştırma Enstitüsü Projesi, Ankara University, Turkey, October 2019

IEEE TRANSACTIONS ON NUCLEAR SCIENCE, Journal Indexed in SCI-E, May 2019

Project Supported by Public Organizations in Other Countries, UNITY THROUGH KNOWLEDGE FUND Planinska 1, HR-10000 Zagreb, Croatia, Croatia, March 2017

Scientific Consultations

MUONTEK RADYASYON ÖLÇÜM SİSTEMLERİ TEKNOLOJİ SANAYİ VE TİCARET ANONİM ŞİRKETİ, Project Consultancy, Ankara University, Nükleer Bilimler Enstitüsü, Medikal Fizik Bölümü, Turkey, 2024 - 2025

ALSEM Aşağı Öveçler Mah 1322 cadde No79/3 Çankaya / Ankara adresinde mukim Ulus Vergi Dairesi Vergi No: 059024467 ve Ticaret Sicil No.: 059024467, Tic. Sicil No:185010, Scientific Consultancy, Ankara University, Nükleer Bilimler Enstitüsü, Medikal Fizik Anabilim Dalı Başkanı, Turkey, 2018 - 2019

Metrics

Publication: 125

Citation (WoS): 551

Citation (Scopus): 444

H-Index (WoS): 13

H-Index (Scopus): 12

Congress and Symposium Activities

NATO Barış ve Emniyet Programı (SPS projesi G5974) tarafından mali olarak desteklendiği belirtilen "Radyolojik-Nükleer (RN) Tehditlerin Tespiti için Yüksek k-Dielektrik RADFET (High-k Dielectric RADFET for Detection of RN Treats)", Invited Speaker, Nish, Serbia, 2024

Birinci Araştırma Koordinasyon Toplantısı-J02015 CRP Projesi, IAEA-Radyoaktif, Nükleer ve Diğer Kaçak Malzemelerin Tespitinde Nükleer Dedeksiyon Teknolojileri Kullanılarak Güvenli ve Emniyetli Ticaretin Kolaylaştırılmasına İlişkin İlk Araştırma Koordinasyon Toplantısı, Attendee, Vienna, Austria, 2023

Nükleer Emniyet için Radyasyon Dedeksiyonu ve Ölçüm Cihazları: Eğilimler, Zorluklar ve Fırsatlar (Third Technical Meeting on Radiation Detection Instruments for Nuclear Security: Trends, Challenges and Opportunities)", Invited Speaker, Vienna, Austria, 2023

International Atomic Energy Agency- INSEN-Annual Meeting, Attendee, Vienna, Austria, 2023

Third meeting of U.S.-Black Sea Nonproliferation Exchange initiative, The Civil Council on Defense and Security (CCDS) of Georgia and Export Control and Border Security (EXBS) Program of the U.S. Department of State, Invited Speaker, Tbilisi, Georgia, 2023

IAEA Technical Meeting on the Use of Uncrewed Aerial Systems for Radiation Detection and Surveillance, Attendee, Brno, Czech Republic, 2022

US-Black Sea Nonproliferation Exchange initiative implemented by the James Martin Center for Nonproliferation Studies (CNS), Working Group, Washington, United States Of America, 2022

International Atomic Energy Agency- INSEN-Annual Meeting, Attendee, Vienna, Austria, 2022

Radyoaktif Kaynakların Güvenliği ve Emniyeti: Başarılanlar ve Geleceğe Yönelik Çabalar, Attendee, Vienna, Austria, 2022

International Conference on Nuclear Security: Commitments and Actions, Invited Speaker, Vienna, Austria, 2016

Awards

Yücel H., Certificate of Excellence in Reviewing, Korean Nuclear Society (Kore Nükleer Birliđi), December 2024

Yücel H., Karanfil E. C., TEKNOFEST Nükleer Enerji Teknolojileri Tasarım Yarışması, Alt kategori: Nükleer Enstrümantasyon ve Kontrol Sistemi Tasarım kategorisi, T3 Vakfı, October 2024

Yücel H., Certificate of Excellence in Reviewing, Korean Nuclear Society, December 2017

Yücel H., Certificate of Excellence in Reviewing, Korean Nuclear Society, December 2016