

Curriculum vitae (CV)

Prof. Dr. Haluk Yücel



Date of Birth (Year/Month/Day): 1959/08/01

Birth Place: Belcarsak, Bala, ANKARA / TR

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Academic Career

- 1970 - 1976 Çankaya High School, Ankara, TR, (Science Diploma)
- 1976 - 1977 Hacettepe University, English Preparation School, Ankara, TR (Language, Compulsory Education)
- 1977 - 1981 Hacettepe University, Eng. Faculty, Physics Engineering, Ankara, TR (Physics, B.Sc.)
- 1981 - 1984 Hacettepe University, Nuclear Engineering, Ankara, TR, (Nuclear Engineering, M.Sc.)
- 1984 - 1992 Gazi University, Science and Tech. Inst., Ankara, TR, (Physics, (Nuclear Physics), Ph. D.)
- 1997 Turkish Higher Education Council, Ankara, TR (Nuclear Physics, Assoc. Prof. (Docent))
- 2003 – 2004 Army Academy – National Security College

Recent Employment Records

- 2018-Cont'd Head of Medical Physics Department under Nuclear Sciences of Ankara University, (Researcher & Academician, Research and Education (Prof. Dr.))
- 2010 – Cont'd. Institute of Nuclear Sciences of Ankara University, (Researcher & Academician, Research and Education (Prof. Dr.))
- 2009 - 2010 TAEA- Turkish States, Nucl. Res.&Training Center (TUDNAEM), (Director, Management)
- 2007 - 2009 Institute of Nuclear Sciences of Ankara University, (Researcher, Research)
- 2005 - 2007 TAEA - Saraykoy Nucl. Res.&Training Center (SNRTC), (Head Of Dept. & Researcher, Research)
- 2003 - 2005 TAEA - Ankara Nucl. Res.&Training Center, (Director, Management)
- 1988 - 2003 TAEA - Ankara Nucl. Res.&Training Center, (Researcher, Research)
- 1986 - 1987 Turkish Atomic Energy Authority (TAEA), Ankara-Turkey, (Engineer, Nuclear Safety)
- 1983 - 1986 Gazi Univ., Science and Tech. Inst., Ankara, TR, (Res. Assistant, Research)

As Technical Expert and Supervisor

- Turkish Accreditation Agency (TÜRKAK), Technical Expert, 2002 – Now
- Turkish Standards Institute (TSE), Head of Engineering Specialized Board, Energy and Energy Systems Technical Committee Head, 2011 – Now
- State Council and Administrative Courts, Expertise, 2000 – Now
- Croatia Science Foundation, Science Consultant, 2017 – Now

- TÜBİTAK, Project Refereeing/Supervisor
- University - Industry Cooperation, Project Supervisor
- Project Refereeing for some EU countries

Research Subjects

1. Radiation Detection and Measurement
2. Gamma-Ray Spectrometry, (HPGe, CdZnTe, CdTe, NaI:Tl, SDD, PIPS, ZnS:Ag, Pcs, Plastic Scintillators, etc.)
3. Experimental Neutron Physics (INAA, k₀-NAA, PGNAA)
4. Radiation Application, Radiation Protection Physics, Shielding of Ionizing Radiation
5. Radionuclide Metrology and Nuclear Analyse Methods
6. Radioactivity Measurement for Environmental and Industrial Material, Dose Rate Measurement (Beta/Gamma)
7. Method Researching for True Coincidence Summing and Spectral Interference, Digital Pulse Processing, mu-tau Measurement for CZT Characteristics
8. Research and Education Activities in Nuclear Sciences and Nuclear Security
9. Alpha Spectrometry (As), Low Level Liquid Scintillation Counting (LSA/LSC)
10. Response of Water and Tissue Equivalent Plastic Scintillators to ISO s-Cs (0.662 MeV gamma) and Diagnostic X-Ray Energy Range (Medical Physics)
11. Physical Properties of Radiation-Protective Materials, Diagnostic and Mammographic X-Ray Systems (Medical Physics)
12. Uranium and Thorium Characterization, Uranium Enrichment Measurement Methods - Nuclear Safeguards Research and Nuclear Forensics Research and Nuclear Safety
13. Medical Phantom Development and Characterization (within the scope of TUBITAK Project)
14. Standard Radioactive Source Development and Standardization (within the scope of TUBITAK Project)

Reviewer And Editorial Work Performed In Journals

As Reviewer:

International Refereed Journals:

1. Annals of Nuclear Energy
2. Radiation Measurements
3. Applied Radiation and Isotopes
4. Nuclear Engineering and Technology
5. Journal of Radioanalytical and Nuclear Chemistry
6. Journal of Physical Sciences
7. Nuclear Instruments and Methods in Physics Research B
8. Nuclear Science and Techniques
9. Nukleonika

10. Radiation Physics and Chemistry
11. Journal of Radiation Research and Applied Sciences
12. The Journal of Theoretical and Applied Physics
13. International Journal of Sediment Research
14. Radiation Protection Dosimetry

National Refereed Journals:

- TUBITAK -Turkish Journal of Engineering and Environmental Sciences
- TUBITAK - Turkish Journal of Physics
- SAREM - Journal of Strategic Studies
- TUBITAK - Türk Yer Bilimleri Dergisi,
- A.U. Adli Bilimler Dergisi (Journal of Nuclear Forensics)
- A.U. Journal of Nuclear Sciences
- Mugla Journal of Science and Technology
- Turkish Journal Physics

As Editor:

Journal of Nuclear Sciences of Ankara University (Chef Editor)

Conducted Projects

- ABH67390007- J02012 CRP, "Method Development for HpGe and CdZnTe Detector Based Gamma Spectroscopic Determination of Isotopic Abundance in Nuclear Material Characterization" (2017-2022), Project Manager, 103000 Euro.
- 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), IAEA Coordinated Research Project, Project Counterpart , 1159425 Euro
- IAEA RER 7009 The Europe Regional Project on -Enhancing Coastal Management in The Adriatic and The Black Sea by using nuclear analytical techniques, Project Counterpart Project Manager, (2018-2019), 252925 Euro.
- USA supported Project, ABH67390004, A Course Development on Nuclear Security and Safeguards (2016-2019), Supported By Stanton Foundation, USA, Project Manager Nükleer Güvenlik Denetimi Ve Nükleer Emniyet, (2016-2019), 50000 US \$
- TÜBİTAK 1001 Projesi (118S616), 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, (2018-2020), Project Manager
- TÜBİTAK 1002 Project (116F308), Preperation of Radioactive Standard Sources from Epoxy Resin Mixed with ²²⁶Ra, ¹⁵²Eu and Cellulose Matrix mixed with U, Th and K in Re-entrant Beakers and Characterization of Dose in-House Sources by Use of Different Type HpGe Detectors, Ters-Kuyulu Kap Sayım Geometrisinde ²²⁶Ra, ¹⁵²Eu İçeren Epoksi Matriksli Ve U, Th, K İçeren Selülöz Matrisli Radyoaktif Kalibrasyon Kaynaklarının Hazırlanması ve HpGe Dedektörlerle Karakterizasyonu., (30.03.2016-22.02.2018), Project Manager, 30000 TL
- TÜBİTAK 1003 Project (115S018) - Development of A Tissue Equivalent Phantom Used for Quality Control Tests of Mammography Systems and Its Characterization by Using X-Ray Spectroscopy, (2015-2017), Project Manager, TÜBİTAK 1003 Projesi (115s018) Mamografi Sistemlerinin Kalite

Kontrollerinde Kullanılması Amacıyla Doku Eşdeğeri Fantom Geliştirilmesi Ve X-Işını Spektroskopisi İle Karakterizasyonu (15.10.2015-27.02.2018), 687500 TL

- BAP Project (12A4045001) - Enhancement of laboratory infrastructure in AU Institute of Nuclear Sciences(Nükleer Bilimler Enstitüsü Laboratuvarlarının Altyapılarının Güçlendirilmesi), Project Manager (2012-2015), 220000TL
- BAP Project (12A4045002) - Enhancement of The Measurement Capacity of Low Level Radioactivity By Liquid Scintillation Counting System in The Laboratories of Institute of Nuclear Sciences (Nükleer Bilimler Enstitüsü Laboratuvarlarında Sıvı Sintilasyon Ölçüm Sistemi İle Düşük Seviye Radyoaktivite Ölçüm Kapasitesinin Geliştirilmesi), Researcher, (2012-2013), 250000TL
- BAP Project (11A4045001) Enhancement of laboratory infrastructure for the development of low level radioactivity measurement capabilities in AU Institute of Nuclear Sciences
- Nükleer Bilimler Enstitüsü Laboratuvarındaki Düşük Seviye Radyoaktivite Ölçüm Kapasitesinin Geliştirilmesi, Researcher, (2011-2012), 20000TL
- DPT Projesi (2005K120130), Radyasyon Uygulamaları ve Teknolojileri Geliştirme Projesi, (2007-2010), Researcher, Completed
- Uluslararası Kuruluş UAEA tarafından desteklenen TUR-12604 “Development and utilization of nuclear analytical techniques for analysis of nuclear forensic materials”, Araştırma Projesi, (2003-2006), Project Personnel
- Ulusal Kuruluş TAEK tarafından desteklenen “İzotopik nötron kaynağı kullanarak ani gama nötron aktivasyon analiz sisteminin kurulması”- IV.05.DPT.1 Kodlu TAEK projesi, (1999-2007), Project Manager, Completed
- Ulusal Kuruluş TAEK tarafından desteklenen “TAEK Hızlandırıcı Projesi” DPT 99K 120 110 kodlu TAEK projesi (1999-2007), Proje Çalışanı, (2003-2004), Project Manager
- Uluslararası Kuruluş UAEA tarafından desteklenen TUR/0/008 kodlu “Improving Quality Control and Analysis Techniques in Materials Research and Environmental Applications by using Cyclotron type accelerator“ Teknik İşbirliği Projesi, (1999-2006), Project Personnel
- Uluslararası Kuruluş UAEA tarafından desteklenen “Quality assurance and quality control of nuclear analytical techniques” UAEA’nın IAEA/C7-RER/2/004 kodlu Bölgesel İşbirliği Projesi, (1999-2004), Project Personnel
- Ulusal Kuruluş TAEK tarafından desteklenen Çernobil Kazası sonrası ¹³⁷Cs izotopunun toprak ile etkileşme mekanizmalarının incelenmesi, TAEK projesi, (1988-1990), Project Manager
- Ulusal Kuruluş TAEK tarafından desteklenen “İzotopik Gaz Karışımlarını Bileşenlerine Ayıran Bir Nozzle Cihazının Tasarımı ve Geliştirilmesi” TAEK projesi, (1987-1989), Project Manager
- Uluslararası Kuruluş UAEA tarafından desteklenen “Nuclear Power Plant” UAEA TUR/09/005 Teknik İşbirliği Projesi, (1986-1987), Project Personnel

Recent Publications

He has over 60 publications written in English and Turkish related to his work.

A. Full-Text Article in Science Citation Index (SCI) Core Journals:

- A1. YÜCEL, H., ÖVÜÇ, S., AKKAYA G., ÇAKMAK; Ş: Estimation of Radiological Exposure Levels in a Mining Area Based on ²³⁸U, ²²⁶Ra, ²³²Th and ⁴⁰K Activity Measurements: A Case Study for Beylikova-Sivrihisar complex Ore Site in Turkey, Radiation Protection Dosimetry (2020), pp. 1 – 10 doi:10.1093/rpd/ncaa104
- A2. AKKAYA, G., BUDAK, M.G. Neutron self-shielding correction in application of k₀-NAA standardization method to determine Mn content in manganese ores, Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms, 475, 1-7(2020), Paper
- A3. DURUER, K., ETİZ, D., YÜCEL, H. 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, East European Journal of Physics 2020(3), pp. 11-18, Paper

- A4. O. SİMA, A. De Vismes OTT, M.S. DÍAS, P. DRYAK L. FERREUX, D. GURAU, S. HURTADO, P. JODLOWSKI, K. KARFOPOULOS, M.F. KOSKINAS, M. LAUBENSTEIN, Y.K. LEE, M.C. LEPY, A. LUCA, M.O. MENEZES, D.S. MOREIRA, J. NIKOLIC, V. PEYRES, P. SAGANOWSKI, M.I. SAVVA, R. SEMMLER, J. SOLC, T.T. THANH, K. TYMINSKA, Z. TYMINSKI, T. VIDMAR, I. VUKANAC, **H. YÜCEL**, “Consistency test of coincidence-summing calculation methods for extended sources”, *Applied Radiation and Isotopes* 155 (2020) **108921** 10.1016/j.apradiso.2019.108921paper.
- A5. **YÜCEL H.**, GÜRBÜZ A., MURAT S., DURKAN R. “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.”, *Radiation Physics and Chemistry* 168 (2020) 108598, Paper..
- A6. AKKAYA, G., **YÜCEL, H.**, BUDAK, M.G. Determination of manganese content in some commercial manganese ores in Turkey k 0 -NAA standardization method using ^{241}Am -Be isotopic neutron source, *AIP Conference Proceedings*, 2075(2019),070005, Paper.
- A7. **YÜCEL H.**, GÜVEN R., DEMİREL İ., Determination of radioactive Contaminants in Sediment and Sand Samples from the Black Sea by HPGe Gamma-ray Spectrometry, *Radioprotection* 55, pp. 141-145 (2020), Paper.
- A8. **YÜCEL, H.**, BİRGÜL, Ö. ÇUBUKÇU, Ş., UYAR, E. “A novel approach in voltage transient technique for the measurement of electron mobility and mobility-lifetime product in CdZnTe detectors”, *Nuclear Engineering and Technology*, *Nuclear Engineering and Technology*, 51(3), pp. 731-737, <https://doi.org/10.1016/j.net.2018.12.024>, Paper.
- A9. **YÜCEL, H.**, ZÜMRÜT, S., NARTTÜRK, B.R., G. GEDİK, “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”, *Nuclear Engineering and Technology*, 51(2), pp. 526-532(2019), doi: 10.1016/j.net.2018.09.024, Paper.
- A10. **YÜCEL, H.**, BORA NARTTÜRK, B.R., ZÜMRÜT, S., GEDİK, G., KARADAG, M. “Investigation of thermal neutron detection capability of a CdZnTe detector in a mixed gamma-neutron radiation field”, *Nukleonika*, 63(3), pp. 59-64(2019) Paper.
- A11. YELTEPE, E., **YÜCEL, H.** “Standardization of ^{142}Pr activity concentration” *Applied Radiation and Isotopes*, 134, pp. 263-268 (2018) doi: 10.1016/j.apradiso.2017.07.040, Paper.
- A12. UYAR, E., YÜKSEL, A. Ö., GÜVEN, R., **YÜCEL, H.** “Methodology for determination of correction factors in direct gamma spectrometric measurement of radionuclides in sediments”, *International Journal of Sediment Research*, Vol. 32 (2017) pp. 324-330, Doi: 10.1016/j.ijsrc.2017.05.004, Paper.
- A13. CUBUKCU, S., **YÜCEL, H.** “Characterization of paraffin based breast tissue equivalent phantom using a CdTe detector pulse height analysis”, *Australasian Physical & Engineering Sciences in Medicine*, Vol.39, pp.877–884 (2016), 10.1007/s13246-016-0487-1, Paper.
- A14. BUDAK, M.G., KARADAG, M., **YÜCEL, H.** “Determination of effective resonance energy for the ^{193}Ir (n, γ) ^{194}Ir reaction by the cadmium ratio method”, *Nuclear Inst. and Methods in Physics Research*, B, Vol.273, pp. 85-90(2016), DOI:10.1016/j.nimb.2016.03.026
- A15. **YÜCEL, H.**, GÜLLÜOĞLU, E., ÇUBUKÇU, Ş., ÜNCÜ, Y. A.” Measurement of attenuation properties of protective materials used as thyroid guard and apron for the personal protection against diagnostic medical X-rays”, *Journal of Physical Science*, Vol.27 (1), pp. 111-128(2016)
- A16. **YÜCEL, H.**, ÇOBANBAŞ, İ., YÜKSEL, A.Ö., KOLBAŞI, A., KAYA, V. “Measurement of photo-neutron dose from an 18 MV medical linac by using foil activation method in view of radiation protection of patients”, *Nuclear Engineering and Technology*, 48 (2), pp. 525-532 (2016), DOI: 10.1016/j.net.2015.11.003
- A17. **YÜCEL, H.**, YELTEPE, E., YÜKSEL, A.Ö., DİKMEN, H. “ ^{235}U isotopic characterization of natural and enriched uranium materials by using multigroup analysis (MGA) method at a defined geometry using different absorbers and collimators”, *NUKLEONIKA*, (2015), 60(3), pp. 615-620, DOI: 10.1515/nuka-2015-0114

- A18. ÇAKAL, G.Ö., GÜVEN, R., YÜCEL, H. "An application of LSC method for the measurement of gross alpha and beta activities in spiked water and drinking water samples", NUKLEONIKA, (2015), 60(3), pp.637-642, DOI: 10.1515/nuka-2015-0089, Paper.
- A19. YÜCEL, H., ÇUBUKÇU, Ş., UYAR, E., YAPRAK, E. "Determination of the energy dependence of the BC-408 plastic scintillation detector in medium energy X-ray beams" Physics in Medicine and Biology, Vol.59, pp. 6749-6758, (2014) DOI: 10.1088/0031-9155/59/22/6749, Paper.
- A20. YÜCEL, H., KARADAG, M., BUDAK, M.G, YÜKSEL, A.Ö. "Characterization of neutron flux spectra in the irradiation sites of a 37 GBq ^{241}Am -Be isotopic source", Nuclear Inst. and Methods in Physics Research B, Vol.338, pp.139-144 (2014), Paper. DOI: <http://dx.doi.org/10.1016/j.nimb.2014.08.010>
- A21. KARADAG, M., BUDAK, M.G., YÜCEL, H. "Measurement of thermal neutron cross section and resonance integral for the ^{158}Gd (n,g) ^{159}Gd reaction using a 55Mn monitor", Annals of Nuclear Energy, Vol.63,199-204 (2014), Paper.
- A22. YÜCEL, H., UYAR, E. ESEN, A.N. "Measurements on the spectroscopic performance of CdZnTe coplanar grid detectors", Applied Radiation and Isotopes, Vol. 70(8), pp. 1608-1615, pp. (2012), Paper. DOI: 10.1016/j.apradiso.2012.04.027
- A23. BUDAK, M.G., KARADAG, M., YÜCEL, H. "Experimental determination of effective resonance energies for ^{158}Gd (n, γ) ^{159}Gd and ^{179}Hf (n, γ) $^{180\text{m}}\text{Hf}$ reactions", Annals of Nuclear Energy, Vol. 38 (11), pp. 2550-2556, (2011), Paper.
- A24. YÜCEL, H., KÖSE, E., ESEN, A.N., BOR, D. "Correction methodology for the spectral interfering g-rays overlapping to the analytical peaks used in the analysis of ^{232}Th ", Applied Radiation and Isotopes, Vol.69, pp.890-896 (2011), Paper. DOI: 10.1016/j.apradiso.2011.02.027
- A25. BUDAK, M.G., KARADAG, M., YÜCEL, H. "Determination of effective resonance energies for the (n,g) reactions of ^{152}Sm and ^{165}Ho by using dual monitors", Nuclear Inst. and Methods in Physics Research B, Vol.268, pp.2578-2584 (2010), Paper. DOI: 10.1016/j.nimb.2010.06.037
- A26. YÜCEL, H., SOLMAZ, A.N., KÖSE, E., BOR, D. "True coincidence-summing corrections for the coincident g-rays measured with coplanar grid CdZnTe detectors" Applied Radiation and Isotopes Vol.68, No.6, 1040-1048(2010), Paper. DOI: 10.1016/j.apradiso.2010.01.042
- A27. YÜCEL, H., SOLMAZ, A.N., KÖSE, E., BOR, D. "Methods for spectral interference corrections for direct measurements of ^{234}U and ^{230}Th in materials by g-ray spectrometry", Radiation Protection Dosimetry, Oxford Journals Vol.138, No.3, pp.264-277(2010), Paper. DOI: 10.1093/rpd/ncp239
- A28. YÜCEL, H., SOLMAZ, A.N., KÖSE, E., BOR, D. "A semi-empirical method for calculation of true coincidence corrections for the case of a close-in detection in g-ray spectrometry", J. Radioanal. Nucl. Chem., Vol.283, No.2, 305-312(2009), Paper. DOI: 10.1007/s10967-009-0360-8
- A29. YÜCEL, H., SOLMAZ, A.N., KÖSE, E., BOR, D. "Spectral interference corrections for the measurement of ^{238}U in materials rich in thorium by a high resolution g-ray spectrometry", Applied Radiation and Isotopes, Vol.67, No.11, 2049-2056(2009), Paper. DOI: 10.1016/j.apradiso.2009.07.011
- A30. YÜCEL, H., SOLMAZ, A.N., BOR, D. "Virtual photon interaction depths of CdZnTe detectors in the energy range of 50-662 keV", J. Radioanal. Nucl. Chem., Vol.280, No.3, 569-575 (2009), Paper. DOI: 10.1007/s10967-008-7441-y
- A31. YÜCEL, H., DİKMEN, H. "Uranium enrichment measurements using the intensity ratios of self-fluorescence X-rays to 92^* keV gamma ray in UXKa spectral region", Talanta, 78(2), 410-417(2009), Paper. DOI: 10.1016/j.talanta.2008.11.030
- A32. KARADAG, M., YÜCEL, H. "Measurement of thermal neutron cross section and resonance integral for the ^{174}Yb (n,g) ^{175}Yb reaction by the cadmium ratio method reaction", Nucl. Instrum. and Meth. Phys. Res. B, Vol.266, No: 11, 2549-2555 (2008), Paper.

- A33. BUDAK, M.G., YÜCEL, H., KARADAG, M., TAN, M. "Experimental determination of effective resonance energies for the (n, γ) reactions of ^{71}Ga , ^{75}As , ^{164}Dy , ^{170}Er by the cadmium ratio method", *Annals of Nuclear Energy*, Vol.35, No.8, 1433-1439(2008), Paper.
- A34. YÜCEL, H. "The applicability of MGA method for depleted and natural uranium isotopic analysis in the presence of actinides (^{232}Th , ^{237}Np , ^{233}Pa and ^{241}Am)", *Applied Radiation and Isotopes*, Vol. 65, No.11, 1269-1280 (2007), Paper.
- A35. YÜCEL, H., BUDAK, M.G., KARADAG, M. "Measurement of thermal neutron cross section and resonance integral for ^{170}Er (n,g) ^{171}Er reaction using a ^{55}Mn monitor", *Physical Review C*, Vol.76, Article No: 034610, 1-7 (2007), Paper.
- A36. KARADAG, M., YÜCEL, H., BUDAK, M.G. "Measurement of thermal neutron cross section and resonance integral for (n,g) reaction in ^{152}Sm ", *Annals of Nuclear Energy*, Vol.34, 188-193 (2007), Paper.
- A37. TURHAN, Ş., YÜCEL, H., GÜNDÜZ, L., ŞAHİN, Ş., VURAL, M., PARMAKSIZ, A., DEMİRCİOĞLU, B. "Natural radioactivity measurement in pumice samples used raw materials in Turkey", *Applied Radiation and Isotopes*, Vol. 65, No.3, 350-354 (2007), Paper.
- A38. TURHAN, Ş., ZARARSIZ, A. YÜCEL, H. "Sample geometry and efficiency determination of Bremsstrahlung radiation of ^{90}Sr on gamma detection systems", *J. Radioanal. Nucl. Chem.*, Vol.269, No.1, 141-145 (2006), Paper
- A39. KARADAG, M., YÜCEL, H. "Thermal neutron cross section and resonance integral for ^{164}Dy (n,g) ^{165}Dy reaction", *Nuclear Instruments and Methods in Physics Res. A*, Vol. 550,626-636(2005), Paper.
- A40. YÜCEL, H., KARADAG, M. "Measurement of thermal neutron cross section and resonance integral for ^{165}Ho (n,g) ^{166}Ho reaction by the activation method", *Annals of Nuclear Energy*, Vol.32, No.1, 1-11 (2005), Paper.
- A41. YÜCEL, H., KARADAG, M. "Experimental determination of a shape factor in $1/E^{1+a}$ epithermal-isotopic neutron source-spectrum by dual monitor method, *Annals of Nuclear Energy*, Vol.31, No.6, 681-695 (2004), Paper.
- A42. TURHAN, Ş., YÜCEL, H., DEMİRBAŞ, A. "Prompt gamma neutron activation analysis of boron in samples with a ^{241}Am -Be neutron source". *J. Radioanal. Nucl. Chem.*, Vol.262, No.3, 661-664, (2004), Paper.
- A43. ARIKAN, P., ACAR, O., ACAR, R., AYCIK, G.A., ÇETİNER, M.A., DEMİREL, H., EFE, N. GÖLGE, T., GÜRELLİER, R., KIRMAZ, R., TÜLÜMEN, Ş., YÜCEL, H., ZARARSIZ, A., AGUŞ, Y. "Establishment of quality system for nuclear analytical laboratories", *J. Radioanal. Nucl. Chem.* Vol.259, No.3, 391-394, (2004), Paper.
- A44. KARADAG, M., YÜCEL, H. "Measurement of thermal neutron cross-section and resonance integral for ^{186}W (n,g) ^{187}W reaction by the activation method using a single monitor", *Annals of Nuclear Energy*, 2004, Vol.31, 1285-1297, (2004), Technical Note.
- A45. KARADAG, M., YÜCEL, H., TAN, M. ÖZMEN, A. "Measurement of thermal neutron cross sections and resonance integrals for ^{71}Ga (n,g) ^{72}Ga and ^{75}As (n,g) ^{76}As by using ^{241}Am -Be isotopic neutron source", *Nuclear Instruments and Methods in Physics Res. A*, Vol.501, No.2/3, 524-535 (2003), Paper.
- A46. YÜCEL, H., KARADENİZ, H., ÇETİNER, M.A., DEMİREL, H., TURHAN, Ş. "Measurement of absolute intensity of 1001 keV gamma ray of $^{234\text{m}}\text{Pa}$ ", *J. Radioanal. Nucl. Chem.*, Vol.258, No.2, 445-447(2003), Technical Note.
- A47. YÜCEL, H., ÇETİNER, M. A., DEMİREL, H. "Use of 1001 keV peak of $^{234\text{m}}\text{Pa}$ daughter of ^{238}U in measurement of uranium concentration by HPGe gamma-ray spectrometry", *Nuclear Instruments and Methods in Physics Research A*, Vol. 413, 74-82, (1998), Paper.

- A48. ÇETİNER, M. A., DEMİREL, H., DEMİRBAŞ, A., YÜCEL, H., ÇELENK, İ. “Automation of a Pneumatic System by Controlling a Microcomputer Equipped with a Custom Add on Board for Neutron Activation Analysis”, Applied Radiation and Isotopes, Vol. 48 , No.3, 397-402 (1997), Paper.
- A49. YÜCEL, H., ÇETİNER, M. A., DEMİREL, H., “Dependence of photon interaction depth on linear attenuation coefficient in high pure Germanium Detectors”, Applied Radiation and Isotopes, Vol.47, No.5/6, 535-541 (1996), Paper.
- A50. YÜCEL, H., ÖZMEN A. "Sorption and Migration of ¹³⁷Cs attached to Organic Materials of Tea in Silty Clay Soil", Radiation Physics and Chemistry, Vol. 47, No.2, 117-123 (1996), Paper.
- A51. YÜCEL, H., ÖZMEN A. "Migration of ¹³⁷Cs Extracted from Contaminated Tea in Sandy Clay Soil", Journal of Nuclear Science and Technology, Vol. 32, No.6, 547-555 (1995), Paper.

B. Full-text article in international indexes and published in Turkish

- B1. YÜCEL H. “Yapı Malzemelerinde Radyolojik Doz Değerlendirmesi(Radiological Dose Assesment for Building Materials“ Standard Ekonomik ve Teknik Dergi, ISSN 1300-8366, Cilt: 54, Sayı: 631, sayfa 45-51, 2015, Paper (Makale), Full Text (Tam Metinli).
- B2. YÜCEL H., ÇAKAL G. Ö., YÜKSEL A. Ö., KURT R., UYAR E., GÜVEN S., HANCI H. “Nuclear forensics and its investigation topics (Nükleer Adli Bilim ve İnceleme Konuları)“, Adli Bilimler Dergisi, ISSN 1303-6793, Cilt: 12, Sayı: 1, Sayfa: 37-48, 2013.
- B3. YÜCEL, H., SOLMAZ, A.N., KURT, A., İNAL, T., BOR, D. “Detection efficiency of CdZnTe Detector in the range of 30-670 keV gamma ray energy for a disc source geometry”, Disk Kaynak Geometrisi İçin 30-670 keV Gama Işını Enerji Aralığında CdZnTe Dedektörünün Dedeksiyon Verimi”, Gazi Üniversitesi Mühendislik Mimarlık Dergisi (GUMMF), Vol (Cilt): 23, No(Sayı): 3, 699-707 (2008), Paper, Full Text.

C. Some of the proceedings published in International Symposium or Congress

- C1. YÜCEL, H., YELTEPE, E. “Yapı Malzemelerinin Radyoaktivite İçeriğinin Radyolojik Değerlendirmesi, Standardizasyonun Küresel Ekonomiye Etkileri”, Uluslararası Sempozyum, 25-26 Kasım 2013, İstanbul, Türkiye. Tam Metinli, sh. 654-662, Türk Standardları Enstitüsü.
- C2. SOLMAZ, A. N., BOR, D., YÜCEL, H. “Efficiency calibration of a well-type Ge detector for voluminous samples in cylindrical geometry”, NATO Science and Security Series B. Physics and Biophysics titled “New Techniques for the Detection of Nuclear and Radioactive Agents,p.193-205 (2009), Springer Science+Business Media B.V., ISBN 978-14020—9598-6, NATO-ATC, 26-30 May, 2008 held in Muğla University, Muğla, Turkey, Full Printed Text.
- C3. YÜCEL, H., YELTEPE, E., DİKMEN, H., VURAL, M. “Uranium isotopic analysis of depleted uranium in presence of other radioactive materials by using nondestructive gamma-ray measurements in coaxial and planar Ge detectors”, p.101-112 in the Proceedings of IV. Eurasian Conference on Nuclear Science and Its Application, 31 Oct. -3 Nov. 2006, Baku, Azerbaijan, Full Printed Text.
- C4. YÜCEL, H., DEMİREL, H., PARMAKSIZ, A., KARADENİZ, H., TÜRK ÇAKIR, İ., ÇETİNER, B., ZARARSIZ, A., KAPLAN, M., ÖZGÜR, S., KIŞLAL, H., HALİTLİGİL, M.B., TÜKENMEZ, İ. “Measurement of natural radioactivity in phosphogypsum by high resolution gamma ray spectrometry, NATO Advanced Research Workshop on Radiation Safety Problems in the Caspian Region”, Kluwer Academic Publishers, NATO Science Series IV Earth and Environmental Sciences Vol.41, pp. 197-204, (2004), Printed Full Text.
- C5. ARIKAN, P., ACAR, O., ACAR, R., AYCİK, G.A., ÇETİNER, M.A., DEMİREL, H, EFE, N., GÖLGE, T. GURLLIER, R., KIRMAZ, R., TÜLÜMEN, Ş., YÜCEL, H., ZARARSIZ, A., AGUŞ, Y. “Analytical Quality Assurance/Quality Control of Nuclear Techniques within RER/2/004”, International Conference

on Isotopic and Nuclear Analytical Techniques for Health and Environment , IAEA-CN-103/115, 10-13 June 2003, Vienna, Austria, Printed full text.

- C6. **YÜCEL, H., DEMİREL, H., KARADENİZ, H., ÇETİNER, B., PARMAKSIZ, A., TURHAN, Ş.** “Low level radioactivity measurements of ²³⁸U, ²³²Th, ⁴⁰K and ¹³⁷Cs in the environmental and industrial samples by high resolution gamma-ray spectrometry”, NATO Advanced Research Workshop on Environmental Protection Against Radioactive Pollution, 16-19 Sept. 2002, Almaty, Kazakhstan, Environmental protection against radioactive pollution, Kluwer Academic Publishers, NATO Science Series IV Earth and Environmental Sciences, Vol.33, pp. 115-122 (2003). Printed Full Text.
- C7. **DEMİREL, H., ÇETİNER, M.A., YÜCEL, H., YURTSEVEN, İ., DEMİRCİOĞLU, B., KARADENİZ, H., ÖZMEN, A.** “Effect of photon interaction depth in the determination of absolute efficiency of HPGe detector for liquid volume source”, Abstracts pp.107-108, II. Eurasian Conference on Nuclear Science and Its Application, Sept.16-19, 2002, Almaty, Kazakhstan, Proceedings of 2nd Eurasian Conf. on Nuclear Science and Its Application Vol. 1, pp.202-212. Full Printed Text.
- C8. **YÜCEL, H., KARADAG, M., ÇETİNER, M.A., TAN, M., ÖZMEN, A.** “Measurement of thermal neutron cross section and resonance integral for ¹³⁹La (n,g)¹⁴⁰La reaction by activation method using ²⁴¹Am-Be neutron source”, Abstracts: p.136,II. Eurasian Conference on Nuclear Science and Its Application, pp.347-361, Sept.16-19, 2002, Almaty, Kazakhstan. Full Printed Text.
- C9. **YÜCEL, H., ERGİN, İ., ÇETİNER, M.A., DEMİREL, H., TAN, M., ÖZMEN, A.** “A Gamma Spectrometric Method for Direct Measurement of Uranium Contents in Solid Samples”, I. Eurasia Nuclear Science and Its Application, 23-27 Oct. 2000, İzmir, Turkey, Vol.2, pp.798-816, Printed Full Text.
- C10. **ÇETİNER, M.A., YÜCEL, H., TURHAN, Ş., ÖZMEN, A.** ‘Estimation of the Production Costs of ⁶⁷Ga, ²⁰¹Tl, ¹²³I and ¹¹¹In Medically Important Radioisotopes by a Cyclotron Facility to be Installed at Ankara Nuclear Research and Training Center in Turkey, I. Eurasia Nuclear Science and Its Application, 23-27 October 2000, İzmir, Turkey, Vol.2, pp.882-892, Printed Full Text.

D. International Congress/Symposium Abstract Reports

- D1. **YÜCEL, H., BALCI, S., SAATCI, S., KAPLAN, N.C. BARUT, A., NARTTÜRK, R. B., YELTEPE, , GÜVEN, R.** Investigation of radioisotope source masking effects on uranium gamma-ray spectra in determining of ²³⁵U abundance in uranium samples, Abstract ID. 145, IAEA International Conference on Nuclear Security 2020, 10-14 Feb. 2020, IAEA, Vienna, Austria.
- D2. **YÜCEL, H., BALCI, S. NARTTÜRK, R. B., SAATCI, S., KAPLAN, N.C. BARUT, A.,** Use of radiation detection instruments in laboratory practice for nuclear security education Abstract ID. 57, poster, International Conference on Nuclear Security 2020, 10-14 Feb. 2020, IAEA, Vienna, Austria.
- D3. **YÜCEL, H., BALCI, S.** “Development of a numerical approach to analyze CdZnTe Spectra for determination uranium Enrichment”, IAEA Technical Meeting on Advancing Techniques for Complex Spectra Analysis, 1 – 5 July 2019, Ankara, Turkey
- D4. **YÜCEL, H.** “Peak Deconvolution Methods for gamma-ray spectra taken by semiconductor and scintillator based detectors”, IAEA Technical Meeting on Advancing Techniques for Complex Spectra Analysis, 1 – 5 July 2019, Ankara, Turkey
- D5. **YÜCEL, H., BALCI, S.** “Development of a numerical approach to analyze CdZnTe Spectra for determination uranium Enrichment”, IAEA Technical Meeting on Advancing Techniques for Complex Spectra Analysis, 1 – 5 July 2019, Ankara, Turkey
- D6. **YÜCEL, H.** “Peak Deconvolution Methods for gamma-ray spectra taken by semiconductor and scintillator based detectors”, IAEA Technical Meeting on Advancing Techniques for Complex Spectra Analysis, 1 – 5 July 2019, Ankara, Turkey
- D7. **YÜCEL, H., GÜVEN R., DEMİREL; İ.** “The importance of correction factors for the measurement of some radionuclides in sediment and coastal sand samples by HPGe detector” 11th International SedNet

Conference “Sediments as a dynamic natural resource – from catchment to open sea”, 3-5 April 2019, Dubrovnik, Croatia.

- D8. **YÜCEL, H.** “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” in IAEA report, p.8, 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 (RER7009), 25-27 Sept. 2018, Varna, Bulgaria.
- D9. **YÜCEL, H.** IAEA CRP J02012 “Method Development for High, Medium and Low Resolution Detector Based Gamma Spectroscopic Determination of ^{235}U Isotopic Abundance in Nuclear Material Detection and Characterization”, presented in: First Research Coordination Meeting (RCM) on the Coordinated Research (CRP) for Advancing Radiation Detection Equipment for Detecting Nuclear and Other Radioactive Material out of Regulatory Control, Beijing, China, 3 – 7 Sept. 2018
- D10. **YÜCEL, H., NARTTÜRK, R.B., YELTEPE, E., BALCI, S., YILMAZ, S.** “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”, 2nd Technical Meeting on Radiation Detection Instruments for Nuclear Security:Trends, Challenges and Opportunities, 16-20, April 2018, Vienna, Austria, Sözlü Sunum
- D11. **YÜCEL, H., NARTTÜRK R. B.,** “Assessment of educational approaches to strength the physical protection regime of Turkey from point of view nuclear security culture”,13-17.11.2017, Vienna, Austria, Poster
- D12. **YÜCEL, H., ÇAKAL, G., GUVEN, R., LİMON, S.** “Determination of optimum parameters for ^{241}Am alpha source preparation by electrodeposition method” ,International Conference On Developments And Applications of Nuclear Technologies 2017, 10-13.09.2017, Krakow Poland, Sözlü Sunum
- D13. **YÜCEL, H., NARTTÜRK, R.B., ZÜMRÜT, S., GEDİK, G., KARADAĞ, M.** “Investigation of thermal neutron detection capability of a CdZnTe detector in a mixed gamma-neutron field”, International Conference On Developments And Applications of Nuclear Technologies 2017, 10-13.09.2017, Krakow Poland, Poster
- D14. **YÜCEL, H., ZÜMRÜT, S., NARTTÜRK, R.B., GEDİK, G.** “Preparation of epoxy resin based Gamma ray source form ^{152}Eu and their characterization using efficiency transfer functions implemented in ANGLE 4 and MEFFTRAN” ,International Conference On Developments And Applications of Nuclear Technologies 2017, 10-13.09.2017, Krakow Poland, Sözlü Sunum
- D15. **YÜCEL, H., YELTEPE, E.** “Standardization of ^{142}Pr activity concentration using CIEMAT/NIST efficiency tracing method” 21st International Conference on Radionuclide Metrology, Beunes Aires, Arjantin,15-19 May 2017. Poster
- D16. **GEDİK, G., NARTTÜRK, R. B., ÇUBUKÇU, Ş., BİRGÜL, Ö., DÜŞÜNCELİ, ATMAN, E., YÜCEL, H.** “Comparison of BIRADS 4th edition and BIRADS 5th edition density scale for healthy breast images for estimation of mean glandular dose”, 3rd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology,10-12. 05.2017, Adana Türkiye, Sözlü Sunum
- D17. **ÇAKAL, G. Ö., GÜVEN, R., YÜCEL, H.** “An application of LSC technique to determine $^{90}\text{Sr}/^{90}\text{Y}$ radionuclidesin dry tea samples”, 10-12. 05.2017, Adana Türkiye, Sözlü Sunum
- D18. **NARTTÜRK, R. B., KAVALCI, T., ÇUBUKÇU, Ş., GEDİK, G., ZÜMRÜT, S., YÜCEL, H.** “Measurement of shielding effectiveness of autoclaved aerated concrete for its use in diagnostic x-ray facilities and industrial facilities”, 3rd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, 10-12. 05.2017, Adana Türkiye, Sözlü Sunum
- D19. **ZÜMRÜT, S., NARTTÜRK, R.B., GEDİK, G., YÜCEL, H.** “Standard source preparation from cellulose matrix for the detection efficiency measurement used for the analysis of environmental samples”, 3rd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, 10-12. 05.2017, Adana Türkiye, Sözlü Sunum

- D20. **YÜCEL, H.** “Türkiye’de Nükleer Emniyet ve Nükleer Güvence Denetimine İlişkin Durumun Değerlendirilmesi (Present status of Nuclear Security and Safeguards in Turkey)”, Türkiye-Ukrayna Nükleer Eğitim İşbirliği Çalıştayı (Workshop on Turkey-Ukraine Nuclear Education Cooperation), 20-21.02.2017, Ankara, Türkiye. Sözlü Sunum (Invited talk).
- D21. **YÜCEL, H.** “Detection and Measurement Capacity for Nuclear Material Characterization in Nuclear Security Regime of Turkey” International Conference on Nuclear Security: Commitments and Actions, Vienna, Austria, 5–9 December 2016. Poster [PO-4]_POS_43_Yücel
- D22. **YÜCEL, H.** “Status of Nuclear Science Education and Needs to Competency Based Education at the Beginning of Nuclear Power Programme in Turkey”, Third International Conference on Nuclear Knowledge Management: Challenges and Approaches, Vienna, Austria, 7-11 November 2016, P-20, Poster
- D23. **YÜCEL, H., ZÜMRÜT, S., NARTTÜRK, R.B, YEĞİN, G.** “A CdZnTe Semiconductor Used as a Versatile Neutron Detection Device in a Mixed Gamma-Neutron Fields TESNAT2016-Theoretical and Experimental Studies in Nuclear Applications and Technology), 28-30 April 2016, Hatay, Turkey, Abstract Proceedings, Abstract
- D24. **BUDAK, M.G., KARADAG, M., YÜCEL, H.** “Measurement of Thermal Neutron and Resonance Integral Cross Section for the $^{193}\text{Ir}(n,\gamma)^{194}\text{Ir}$ Reaction”, TESNAT2016-Theoretical and Experimental Studies in Nuclear Applications and Technology), 28-30 April 2016, Hatay, Turkey, Abstract Proceedings, Abstract.
- D25. **ÇAKAL, G.Ö., SEZEN, LIMON, S., GÜVEN,R., YÜCEL, H.** “Measurement of ^{210}Pb and ^{210}Po activity concentrations in certified lagoon sediment and moss soil by using LSC and alpha particle spectrometry” 3rd International Conference on Po and Radioactive Pb Isotopes, 11-14 Oct.2015, Kuşadası, İzmir, Turkey, Abstract Proceedings, p.79, Sözlü Bildiri
- D26. **YÜCEL, H., GÖKMEN H., UYAR E.** “Determination of radioactivity content in ceramic tile and marble samples used for covering materials in buildings using gamma spectrometric method for radiation dose assessment” 3rd International Conference on Po and Radioactive Pb Isotopes, 11-14 Oct.2015, Kuşadası, İzmir, Abstract Proceedings, p.143, Poster
- D27. **ÇUBUKÇU, Ş., YÜCEL, H.** “Development of breast tissue equivalent phantom made from paraffin with some additives and its characterization by using x-ray spectroscopy”, DOI: 10.1594/ecr2015/C-0145, ECR 2015 / C-0145, Poster, Book of Abstracts ISSN: 1869-41 01 (Online), Vol.6(1) Supplement, p.447, 1-12 pages
- D28. **ÇAKAL, G.Ö., GÜVEN, R., YÜCEL, H.,** “An application of LSC method for the measurement of gross alpha and beta activities in spiked water and drinking water samples”, 21-24 September 2014, Warsaw, Poland. Abstract.
- D29. **YÜCEL, H., BALCI, SEFER., SAATCI SELEN, KAPLAN, NESLIHAN CEREN, BARUT, AYŞEN YELTEPE, EMIN, NARTTÜRK, R. BORA, GÜVEN RUFİYET,** “Investigation of radioisotope sources masking effects on uranium gamma-ray spectra in determining of ^{235}U abundance in uranium samples” International Conference on Nuclear Security: Sustaining and Strengthening Efforts, Vienna, Austria, 10-14 February 2020, Abstract,ID 145, sözlü sunum.
- D30. **YÜCEL, H., R. B. NARTTÜRK, S. BALCI, S. SAATCI, N. C. KAPLAN, A. BARUT, M. A. DİRİK, R. GÜVEN, E. YELTEPE ,** Use of radiation detection instruments in laboratory practice for nuclear security education, International Conference on Nuclear Security: Sustaining and Strengthening Efforts, Vienna, Austria, 10-14 February 2020, Abstract,ID 57, poster
- D31. YÜCEL, H., YELTEPE, E., YÜKSEL, A. Ö., DİKMEN, H.** “ ^{235}U isotopic characterization of natural and enriched uranium materials by using multigroup gamma-ray method with a planar Ge detector”, 21-24 September 2014, Warsaw, Poland. Abstract
- D32. **ÇUBUKÇU, Ş., SOYGÜDEN, A., GÜLLÜOĞLU, E., YÜCEL, H.** “Measurement of attenuation properties of paraffin wax loaded with boron oxide and calcium sulphate in the radiologic energy range

of 40–100 kVp X-ray beam qualities”, Humbolt Kolleg, German-Turkish Cooperation in Physics: New Challenges, 11-13 June 2014, Ankara University, Ankara, Turkey. Abstract.

- D33. **YÜCEL, H.**, YÜKSEL, A. Ö., UYAR, E., KURT, R., Correction Factors In Direct Gamma Spectrometric Measurement Of Some Radionuclides In Lake And Stream Sediment Samples, 19th International Conference on Radionuclide Metrology and its Applications, ICRM 2013, Antwerp Belgium, June 16-21, 2013, Abstract.
- D34. **YÜCEL, H.** “Regional Conference on Nuclear- Global Trends and Perspectives in South-East Europe, Podgorica, Montenegro, 10-12 May 2011”. Education in nuclear sciences as a basis of expanding nuclear energy programmes in Turkey. Abstract.
- D35. **YÜCEL, H.**, KÖSE, E., SOLMAZ, A.N., BOR, D. “Interference corrections for some spectral peaks used in gamma spectrometric analysis of ²³⁸U and ²²⁶Ra in presence of thorium in samples”, pp.79 in the Book of Abstract, V. Eurasian Conference on Nuclear Science and Its Applications, 14-17 Oct. 2008, Ankara, Turkey. Abstract.
- D36. SOLMAZ, A.N., **YÜCEL, H.**, KÖSE, E., BOR, D. “Comparison of the activity results measured in the well-type HPGe detector by using radionuclide specific and absolute efficiency calibrations”, pp.77-78 in the Book of Abstracts, V. Eurasian Conference on Nuclear Science and Its Applications, 14-17 Oct. 2008, Ankara, Turkey. Abstract.
- D37. PARMAKSIZ, A., VURAL, M., ÇAKIR, İ.T., DEMİRCİOĞLU, B., DEMİREL, H., **YÜCEL, H.** “Measurement of ²²⁶Ra, ²³²Th and ⁴⁰K radioactivity contents in by-product phosphogypsum from phosphate fertilizer industry using gamma ray spectrometric method”, Book of Abstracts: pp. 186-187, III. Eurasian Conference on Nuclear Science and Its Application, Oct. 5-8, 2004, Tashkent, Uzbekistan. Abstract.
- D38. ÇETİNER, B., **YÜCEL, H.**, DEMİRBAŞ, A., DEMİREL, H., BOZKURT, A., TURHAN, Ş., ÖZMEN, A. “Prompt gamma-ray neutron activation analysis (PGNAA) system by using a 740 GBq ²⁴¹Am-Be neutron source”, in book of Abstracts: p.150-151, II. Eurasian Conference on Nuclear Science and Its Application, Sept. 16-19, 2002, Almaty, Kazakhstan. Abstract.
- D39. ÇETİNER, B., KARADENİZ, H., **YÜCEL, H.**, ÖZGÜR, İ., ÇETİNER, M.A., ÖZMEN, A. “Measurement of absolute gamma-ray emission probability of 1001 keV gamma ray of ^{234m}Pa”, in book of Abstracts: p.135, II. Eurasian Conference on Nuclear Science and Its Application, Sept.16-19, 2002, Almaty, Kazakhstan. Abstract.
- D40. ARIKAN, P., ACAR, O., ACAR, R., AYCIK, G.A., ÇETİNER, M.A., DEMİREL, H., EFE, N., GÖLGE, T., GURLLIER, R., KIRMAZ, R., TÜLÜMEN, Ş., **YÜCEL, H.**, ZARARSIZ, A., AGUŞ, Y., EKİNCİ, S. “Implementation of self-sustaining QA/QC system in Turkish Atomic Energy Authority accordance to internationally harmonized requirements”, Abstracts: pp.367-368, II. Eurasian Conference on Nuclear Science and Its Application, Sept.16-19, 2002, Almaty, Kazakhstan, Abstract.
- D41. ARIKAN, P., ACAR, O., ACAR, R., AYCIK, G.A., ÇETİNER, M.A., DEMİREL, H., EFE, N., GÖLGE, T., GURLLIER, R., KIRMAZ, R., TÜLÜMEN, Ş., **YÜCEL, H.**, ZARARSIZ, A. “Establishment of advanced quality system for nuclear analytical laboratories”, 7. Intern. Conference in Nuclear Analytical Methods in the Life Sciences, NAMLS-7, 16-21 June 2002, Antalya, Turkey. Abstract.
- D42. ARIKAN, P., ACAR, R., AYCIK, G., ÇETİNER, M.A., DEMİREL, H., EFE, N., GÖLGE, T., R. KIRMAZ, TÜLÜMEN, Ş., **YÜCEL, H.**, ZARARSIZ, A. “Quality Assurance and Quality Control of Nuclear Analytical Laboratories in Ankara Nuclear Research and Training Center in Turkey”, I. Eurasia Nuclear Science and Its Application, 23-27 Oct. 2000, İzmir, Turkey, Abstract.

E. National Congress/Symposium Full-Text Reports

- E1. **YÜCEL, H.**, TURHAN, Ş., VURAL M., DEMİRBAŞ, A. “Bor analizi için ²⁴¹Am-Be nötron kaynağının ani-gama nötron aktivasyon analiz (PGAA) sistemindeki iyileştirmeler”, I. Ulusal Bor Çalıştayı Bildiriler Kitabı, 28-29 Nisan 2005, TAEK-BOREN, Ankara, sh. 411-416, (2005). Tam Metinli.

- E2. BUDAK, M.G., KARADAG, M., YÜCEL, H. "241Am-Be nötron alanında ışınlanan In2O3 için termal nötron öz soğurulmasının Cd-farkı yöntemiyle belirlenmesi." VIII. Ulusal Nükleer Bilimler ve Teknolojileri Kongresi, Erciyes Üniversitesi, Kayseri, Bildiri Özetleri Kitabı, sh. 51, (15-17 Ekim 2003). Tam Metinli. Erişim Adresi:<http://kutuphane.taek.gov.tr/internet_tarama/dosyalar/cd/4115/pdf/57.pdf>
- E3. KARADENİZ, H., ÇETİNER, M. A., YÜCEL, H., ARIKAN, P., SULTANSOY, S. "Hızlandırıcı Güdümlü Sistemler/Enerji Yükselteci", 1. Ulusal Parçacık Hızlandırıcıları ve Uygulamaları Kongresi sh.1-6, TAEK, 25-26 Ekim 2001 Ankara, Türkiye. Tam Metinli.
- E4. KARADAG, M., YÜCEL, H., TURHAN, Ş., ÇETİNER, M. A., ÖZMEN, A. "Brakiterapi'de kullanılan Palladyum-103 radyoizotopunun 30 MeVp/15 MeVd enerjili bir siklotrona üretilebilirliği", 1. Ulusal Parçacık Hızlandırıcıları ve Uygulamaları Kongresi, TAEK, 25-26 Ekim 2001 Ankara, Türkiye, Tam Metinli.

F. National Congress/Symposium Abstract Reports

- F1. UYAR, E., YÜCEL, H. "Gama Spektrometrik Yöntemle Uranyum ve Toryum Cevher Örneklerinin Karakterizasyonu", XI. Nükleer Bilimler ve Teknolojileri Kongresi, 12-14 Ekim 2016, Kuşadası, İzmir, Türkiye, özet bildiri.
- F2. ZÜMRÜT, S., NARTTÜRK, R.B., GEDİK, G., UYAR, E., YÜCEL, H. "Radyonüklit Analizi Yeterlik Deneyleri İçin Çeşitli Çevresel Örneklerde Uygulanan Gama Spektrometrik Yöntemler", XI. Nükleer Bilimler ve Teknolojileri Kongresi, 12-14 Ekim 2016, Kuşadası, İzmir, Türkiye, özet bildiri.
- F3. YÜCEL, H. "Güvenli-Yeşil Binaların radyolojik açıdan değerlendirilmesine yönelik kriterler" Güvenli-Yeşil Bina Paneli, 26 Aralık 2014, RTE Üniv., İnşaat Bölümü, Rize. Sözlü Sunum.
- F4. TURHAN, Ş., YÜCEL, H., DEMİRBAŞ, A., DEMİREL, H. "Ani gama nötron aktivasyon analizi için n-tipi bir HPGe dedektörün 60-1500 keV aralığındaki mutlak verim kalibrasyonu." VIII. Ulusal Nükleer Bilimler ve Teknolojileri Kongresi, Erciyes Üniversitesi, Kayseri, Bildiri Özetleri Kitabı, sh. 52, (15-17 Ekim 2003). Özet.
- F5. AYCİK, G.A., ARIKAN, P., ACAR, O., ACAR, R., ÇETİNER, M.A., DEMİREL, H, EFE, N., GÖLGE, T., KIRMAZ, R., TÜLÜMEN, Ş., YÜCEL, H., GURLLIER, R. "QA and QC of Nuclear Analytical Techniques" I. Hellenic Turkish International Physics Conf., 10-15 Sept.2001, Bodrum, Turkey, Kos-Greece. Özet.
- F6. YÜCEL, H. "137Cs Radyoizotopunun Topraktaki Adsorpsiyonu ve İlerleme Mekanizmasının İncelenmesi", VI. Ulusal Nükleer Bilimler ve Teknoloji Kongresi, Uludağ Üniversitesi, Bursa, (15-17 Eylül 1993). Özet.
- F7. YÜCEL, H., TURHAN, Ş., ERCAN, A." Proton Enerjisi 30-40 MeV olan Bir Hızlandırıcı İle EC, β+ Aktif İzotopların Üretilebilirliği", 13. Ulusal Fizik Kongresi, Anadolu Üniversitesi, Eskişehir, (30 Eylül-2 Ekim 1992). Özet.
- F8. YÜCEL, H., BİRGÜL, Ö."İnce Film Dedektör Yapımı ve 252Cf Filyon Ürünleri İle Bazı Uygulamalar", II. Ulusal Nükleer Bilimler Kongresi, Çekmece Nükleer Araştırma ve Eğitim Merkezi, İstanbul, (10-12 Ekim 1984). Özet.

G. Invited Speaker

- G1. YÜCEL, H. "International Nuclear Summer School, ONPU", 14-21 July 2018, Odessa, Ukraine, as a trainer
- G2. YÜCEL, H. "International Nuclear Security Education Network (INSEN)", 9-13 July 2018, Vienna, Austria, as technical expert
- G3. YÜCEL, H. "International Nuclear Security Education Network (INSEN)", 8-12 July 2019, Vienna, Austria, as a technical expert

Completed and Continued Thesis under the Supervision:

Ph.D.:**Completed Thesis**

Mustafa Karadağ (YÖK Tez No: 13347), 2003

M.Güray Budak (YÖK Tez No :?), 2009

Şölen Çubukçu (YÖK Tez No :?), 2017

Continued Thesis

Kerem Duruer (YÖK Tez No :?), 2016

Tuğçe Gürdal (DR) YÖK Tez No :?), 2018

Hayati Gökmen (DR) YÖK Tez No :?), 2018

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M.Sc.:**Completed Thesis**

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