

Asst. Prof. İffet ÇAVDAR



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Address: İstanbul Üniversitesi Fen Fakültesi Fizik Bölümü Nükleer Fizik Anabilim Dalı
Vezneciler Fatih/İstanbul

International Researcher IDs

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Publons / Web Of Science ResearcherID: AAD-2781-2020

Yoksis Researcher ID: 22981

Education Information

Doctorate, Istanbul University, Institute of Graduate Studies In Sciences, Fizik, Nükleer Fizik Anabilim Dalı, Turkey 2006 - 2011

Postgraduate, Istanbul University, Institute of Graduate Studies In Sciences, Fizik, Nükleer Fizik Anabilim Dalı, Turkey 2002 - 2005

Undergraduate, Eskisehir Osmangazi University, Fen Edebiyat Fakültesi, Fizik, Turkey 1998 - 2002

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Sintigrafik Görüntülerde Kısmi Hacim Etkisinin Değerlendirilmesi, Istanbul University, Institute of Graduate Studies In Sciences, Fizik, Nükleer Fizik Anabilim Dalı, 2011

Postgraduate, Ag-107 Çekirdeğinde Enerji Düzey Ömürlerinin Ölçümü, Istanbul University, Institute of Graduate Studies In Sciences, Fizik, Nükleer Fizik Anabilim Dalı, 2005

Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Istanbul University, Faculty of Science, Department of Physics, 2018 - Continues

Assistant Professor, Istanbul University, Faculty of Science, Department of Physics, 2012 - 2018

Research Assistant, Istanbul University, Faculty of Science, Department of Physics, 2010 - 2011

Courses

İÜ DEVLET KONSERVATUVARI Lise Fizik, Ortaokul Fen Bilgisi Dersi, Associate Degree, 2022 - 2023
İleri Fizik Uygulamaları II, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2014 - 2015, 2013 - 2014
Gönüllülük Çalışmaları, Undergraduate, 2021 - 2022
Fiziğin Farklı Disiplinlerdeki Uygulamaları, Undergraduate, 2021 - 2022
Radiation and Health Physics, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019
Çekirdek Fiziği Uygulamaları, Undergraduate, 2020 - 2021
Termodinamik Ve İstatistik Mekanik Laboratuvarı, Undergraduate, 2021 - 2022
İÜ DEVLET KONSERVATUVARI Lise Fizik Dersi, Associate Degree, 2021 - 2022, 2020 - 2021
Termodinamik ve İstatistik Mekanik Laboratuvarı, Undergraduate, 2021 - 2022
İleri Fizik Uygulamaları I, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2014 - 2015, 2013 - 2014
Fizik Lab II, Undergraduate, 2020 - 2021
General Physics I, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019
Physics II, Undergraduate, 2017 - 2018, 2013 - 2014
Physics II, Undergraduate, 2017 - 2018
Fizik I, Undergraduate, 2018 - 2019
Fizik Laboratuvarı I, Undergraduate, 2017 - 2018
Physics II, Undergraduate, 2014 - 2015, 2013 - 2014
Physics I, Undergraduate, 2014 - 2015, 2013 - 2014

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Üniversitesi, February, 2020
Doctorate, Doctorate, İstanbul Üniversitesi, October, 2019
Post Graduate, Post Graduate, İstanbul Üniversitesi, June, 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **An investigation of the efficacy of diagnostic X-ray radiation on bacterial survival**
Firat K., NAKİPOĞLU Y., ÇAVDAR İ.
EUROPEAN PHYSICAL JOURNAL PLUS, vol.138, no.8, 2023 (SCI-Expanded)
- II. **Evidence for octupole collectivity in Pt-172**
Ertoprak A., Cederwall B., Qi C., Aktas O., Doncel M., Hadinia B., Liotta R., Sandzelius M., Scholey C., Andgren K., et al.
EUROPEAN PHYSICAL JOURNAL A, vol.56, no.2, 2020 (SCI-Expanded)
- III. **Indirect assessment of the maximum empirical activity (250 mCi) with respect to dosimetry concepts in radioiodine therapy of metastatic differentiated thyroid cancer**
ABUQBEITAH M., DEMİR M., KABASAKAL L., ÇAVDAR İ., Uslu-Beşli L., YEYİN N., RAZAVIKHOSROSHAHI S., SÖNMEZOĞLU K.
NUCLEAR MEDICINE COMMUNICATIONS, vol.39, no.11, pp.969-975, 2018 (SCI-Expanded)
- IV. **Red bone marrow dose estimation using several internal dosimetry models for prospective dosimetry-oriented radioiodine therapy**
Abuqbeith M., Demir M., ÇAVDAR İ., Tanyildizi H., Yeyin N., Uslu-Beşli L., Kabasakal L., Işıkçı N. İ., Sönmezoğlu K.
Radiation and Environmental Biophysics, vol.57, no.4, pp.395-404, 2018 (SCI-Expanded)
- V. **Radiation dose of caregivers could be reduced in thyroid carcinoma patients requiring high dose of radioactive iodine A case report**
Uslu Besli L., Demir M., Yeyin N., Çavdar İ.
IRANIAN JOURNAL OF NUCLEAR MEDICINE, vol.24, no.2, pp.144-146, 2016 (SCI-Expanded)

- VI. **Evaluation of radiation safety in (177)Lu-PSMA therapy and development of outpatient treatment protocol.**
Demir M., ABUQBETAH M., USLU-BEŞLİ L., YILDIRIM Ö., YEYİN N., Çavdar İ., Vatankulu B., GÜNDÜZ H., Kabasakal L.
Journal of radiological protection : official journal of the Society for Radiological Protection, vol.36, pp.269-78, 2016 (SCI-Expanded)
- VII. **Bone marrow radiation dosimetry of high dose I-131 treatment in differentiated thyroid carcinoma patients**
Parlak Y., Demir M., Cavdar I., Ereees S., Gumuser G., Uysal B., Kaya G. C., Koc M., Sayit E.
INTERNATIONAL JOURNAL OF RADIATION RESEARCH, vol.14, no.2, pp.99-104, 2016 (SCI-Expanded)
- VIII. **Effects of hemodialysis on iodine-131 biokinetics in thyroid carcinoma patients with end-stage chronic renal failure**
Yeyin N., Cavdar I., Uslu L., Abuqbeitha M., Demir M.
NUCLEAR MEDICINE COMMUNICATIONS, vol.37, no.3, pp.283-287, 2016 (SCI-Expanded)
- IX. **Determining and Managing Fetal Radiation Dose from Diagnostic Radiology Procedures in Turkey**
Ozbayrak M., Cavdar I., Seven M., Uslu L., Yeyin N., Tanyildizi H., Abuqbeitha M., Acikgoz A. S., Tuten A., Demir M.
KOREAN JOURNAL OF RADIOLOGY, vol.16, no.6, pp.1276-1282, 2015 (SCI-Expanded)
- X. **The evaluation of urine activity and external dose rate from patients receiving radioiodine therapy for thyroid cancer**
Demir M., Parlak Y., Cavdar İ., Yeyin N., Tanyildizi H., Gümüşer G., Sayit E., Erees S., Sayman H.
RADIATION PROTECTION DOSIMETRY, vol.156, no.1, pp.25-29, 2013 (SCI-Expanded)
- XI. **Identification of gamma rays from Au-172 and alpha decays of Au-172, Ir-168, and Re-164**
Hadinia B., Cederwall B., Page R. D., Sandzelius M., Scholey C., Andgren K., Back T., Ganioglu E., HORNILLOS M. B. G., Grahn T., et al.
PHYSICAL REVIEW C, vol.80, no.6, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **Calculation of Embryo/Fetus Dose in Pregnant Thyroid Patients Who Have Accidentally Received Radioiodine**
Demir M., Çavdar İ., Yeyin N., Abuqbeitha M., Uslu Beşli R. L., İpek N., Seven M.
European Archives of Medical Research, vol.35, no.3, pp.120-125, 2019 (Peer-Reviewed Journal)
- II. **A Clinical Trial of The Evaluation of Environmental Exposure in Yttrium 90 Radioembolization**
Tanyıldızı H., Çavdar İ., Demir M.
SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.22, no.6, pp.1-8, 2018 (Peer-Reviewed Journal)
- III. **THE EVALUATION OF DOSE RATE MEASUREMENTS AND DISCHARGE TIME AFTER RADIONUCLIDE THERAPY**
Yeyin N., Akyel R., Abuqbeitha M., Cavdar İ., Sonmezoglu K., Demir M.
JOURNAL OF ISTANBUL FACULTY OF MEDICINE-ISTANBUL TIP FAKULTESİ DERGISI, vol.80, no.1, pp.1-6, 2017 (ESCI)
- IV. **A Retrospective Study for Total Effective Doses of Nuclear Medicine Employees in Istanbul Turkey**
Çavdar İ., Uslu Beşli L., Yeyin N., Demir M.
Journal of Nuclear Sciences, vol.3, no.1, pp.1-6, 2016 (Peer-Reviewed Journal)
- V. **SURFACE CONTAMINATION RESEARCH ON RADIOIODINE TREATMENT SERVICE**
Çavdar İ., Adıgüzel H., Yeyin N., DEMİR M.
BALKAN PHYSICS LETTERS, vol.20, no.201028, pp.243-248, 2012 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Evaluation of Radiation Exposure Dose Rates: A comparative study between the two commercially**

available Y-90 microsphere products TheraSphere and SIR-Spheres

Tanyildizi H., Demir M., Abuqebitah M., Cavdar I., Kabasakal L., Sonmezoglu K.

Annual Congress of the European-Association-of-Nuclear-Medicine (EANM), Barcelona, Spain, 15 - 19 October 2016, vol.43

- II. **PET/MRI multi-modality imaging with all aspects: An evaluation study**
Tanyıldızı H., Abuqebitah M., Çavdar İ., DEMİR M.
International Congress on Fundamental and Applied Sciences, İstanbul, Turkey, 22 - 26 August 2016, pp.217
- III. **Determining and managing Fetal radiation dose from diagnostic radiology procedures in Turkey**
DEMİR M., Çavdar İ., Tüten A., Hayrettin U., Mehmet S.
ESHG-2016, Barcelona, Spain, 21 - 24 May 2016, pp.708-709
- IV. **Pre-therapy Bone Marrow And Lesion Absorbed Dose Estimation Using Different Dosimetry Models In Metastatic Differentiated Thyroid Cancer**
Abuqebitah M. M., Tanyildizi H., Cavdar I., Demir M., Yeyin N., Vatankulu B., Kabasakal L.
28th Annual Congress of the European-Association-of-Nuclear-Medicine (EANM), Hamburg, Germany, 10 - 14 October 2015, vol.42
- V. **Determination of Approximate Fetal Dose in Nuclear Medicine Examinations: Evaluation of Pregnancy Care**
ÇAVDAR İ., Yeyin N., Tanyıldızı H., ABUQBEITAH M., Uslu L., Demir M.
9th International Physics Conference of the Balkan Physical Union, İstanbul, Turkey, 24 - 27 August 2015, pp.100
- VI. **Total effective doses of nuclear medicine employees; a retrospective study**
ÇAVDAR İ., Sağır S., DEMİR M.
International Conference on Luminescence and ESR Dosimetry, Ankara, Turkey, 27 - 29 August 2014, pp.12
- VII. **Y-90 mikroküre tedavisi planlanan hastalarda Tc-99m-Mebrofenin radyofarmasötüğü kullanarak hastaya spesifik dozimetri uygulaması**
Tanyıldızı H., ÇAVDAR İ., Yeyin N., KABASAKAL L., AKKUŞ B.
XIV Ulusal Medikal Fizik Kongresi, Antalya, Turkey, 21 - 24 November 2013, pp.90
- VIII. **Tanısal amaçlı radyolojik tetkiklerde fetüs dozunun hesaplanması; konjenital anomaliler açısından değerlendirilmesi**
ÇAVDAR İ., DEMİR M., Yeyin N., Yosunkaya E., SEVEN M.
XIV Ulusal Medikal Fizik Kongresi, Antalya, Turkey, 21 - 24 November 2013, pp.95
- IX. **Absorbed Dose Values After Radionuclide Therapy with LU-177 DOTA TATE in Patients with Neuroendocrine Tumor**
Demir M., Yeyin N., Toklu T., Uslu L., Cavdar I., Kabasakal L.
Annual Congress of the European-Association-of-Nuclear-Medicine (EANM), Lyon, France, 19 - 23 October 2013, vol.40
- X. **Nükleer tıp radyasyon görevlilerinin absorbe doz değerleri: Retrospektif çalışma**
ÇAVDAR İ., Yeyin N., Tanyıldızı H., DEMİR M., KANMAZ M. B.
25. Ulusal Nükleer Tıp Kongresi, Antalya, Turkey, 6 - 10 April 2013, pp.95-96
- XI. **Y-90 mikroküre tedavisi yapılan hasta ve atıklarından çevreye salınan radyasyon miktarının belirlenmesi ve çalışanların maruz kaldığı dozların değerlendirilmesi**
Tanyıldızı H., Yeyin N., ÇAVDAR İ., AKYEL R., Yılmaz S., KABASAKAL L., DEMİR M., Kanmaz M. B.
25. Ulusal Nükleer Tıp Kongresi, Antalya, Turkey, 6 - 10 April 2013, pp.3
- XII. **Radyasyon maruziyeti ve fetal anomali riski: İstänmeyen gebelik kayıplarının önlenmesinde Teratolojik danışmanın önemi**
SEVEN M., Yosunkaya E., Koparır E., ÇAVDAR İ., Ateşçi S., Ulucan H., ÖZEN M., DEMİR M.
10. Ulusal Tıbbi Genetik Kongresi, Bursa, Turkey, 19 - 23 December 2012, pp.24
- XIII. **Outpatient radioiodine therapy for thyroid cancer: The evaluation of urine activity, bone marrow absorbed dose and dose rate from patients**
Demir D., Demir M., Gultekin Y., Cavdar C., Erees S., Seyis E., Sayman H.
25th Annual Congress of the European-Association-of-Nuclear-Medicine (EANM), Milan, Italy, 27 - 31 October 2012

- XIV. **Lesion detection with gamma camera using radioiodine**
ÇAVDAR İ., Yeyin N., Tanyıldızı H., ÖKTEM Y., AKKUŞ B., DEMİR M.
TPS 29th International Physics Congress, Muğla, Turkey, 5 - 08 September 2012, pp.102
- XV. **Y-90 SPECT ve PET çekimlerinde fiziksel parametrelerin optimizasyonu ve klinik görüntülerin kantifikasyonu**
Tanyıldızı H., ÇAVDAR İ., Yeyin N., Uslu L., KABASAKAL L., DEMİR M.
24. Ulusal Nükleer Tıp Kongresi, Antalya, Turkey, 4 - 08 April 2012, pp.21
- XVI. **Lu-177 DOTA-TATE ile peptit reseptör radyonüklid tedavisinde absorbe doz değerleri**
Yeyin N., Toklu T., ÇAVDAR İ., Tanyıldızı H., Demirci E., OCAK DEMİRÇİ E. M., aygün a., KABASAKAL L., DEMİR M.
24. Ulusal Nükleer Tıp Kongresi, Antalya, Turkey, 4 - 08 April 2012, pp.20
- XVII. **131-I ile tüm vücut sintigrafisinde lezyon dedeksiyonu: Fantom çalışması**
ÇAVDAR İ., Yeyin N., Tanyıldızı H., Sağer S., DEMİR M.
24. Ulusal Nükleer Tıp Kongresi13, Antalya, Turkey, 4 - 08 April 2012, pp.24
- XVIII. **Sintigrafik görüntülerde kısmi hacim etkisinin incelenmesi**
ÇAVDAR İ., Yeyin N., Tanyıldızı H., Nişli C., ÖKTEM Y., AKKUŞ B., DEMİR M.
24. Ulusal Nükleer Tıp Kongresi, Antalya, Turkey, 4 - 08 April 2012, pp.23
- XIX. **Alpha-Decay Studies of 172-Au, 168-Ir, 164 Re Chain and Gamma-Ray Spectroscopy of 172-Au**
Hadinia B., Cedarval B., Back T., Johnson A., Khaplanov A., Wyss R., Page R. D., Paul E. S., Grahn T., Gomez Hornillos M. B., et al.
The 48th Winter Nuclear and Particle Physics Conference, Banff, Alberta, Canada, 18 - 20 February 2011
- XX. **Türk Hızlandırıcı Merkezinin "Fast Neutron Therapy" potansiyeli**
ÇAVDAR İ.
VIII. YUUP Çalıştay, Bolu, Turkey, 7 - 09 December 2009
- XXI. **Türk hızlandırıcı merkezi proton hızlandırıcısının tedavi amaçlı kullanım potansiyeli**
DEMİR B., OKUTAN M., ÇAVDAR İ., ÖKTEM Y., AKKUŞ B.
X. Ulusal Nükleer Bilimler ve Teknolojileri Kongresi, Muğla, Turkey, 6 - 09 October 2009, pp.107
- XXII. **Measurement of Absolute Gamma Ray Emission Probability of 1001 keV from The Decay of 234m- Pa**
Çetiner B., Karadeniz H., Yücel H., Çavdar İ., Çetiner M.A. M. A., Özmen A.
II Eurasian Conference on Nuclear Science and Its Application, Almati, Kazakhstan, 16 - 19 September 2002, pp.335-342

Supported Projects

Tanyıldızı Kökkülünk H., Çavdar İ., TUBITAK Project, Prediction of Lung Cancer Diagnosis by Machine Learning with Sarcopenia, New Generation Inflammation Markers and PET/CT Anatomical-Metabolic Parameters, 2023 - 2025

ÇAVDAR İ., NAKİPOĞLU Y., FIRAT K., Project Supported by Higher Education Institutions, x ışınları ile Mikrobiyal Etkileşimin İncelenmesi, 2022 - 2022

Yavaş Ö., Akkuş B., Öktem Y., Ganioglu Nutku E., Çavdar İ., Akıncı F. Ç., Süsoy Doğan G., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Türk Hızlandırıcı Merkezi Teknik Tasarımı ve Test Laboratuvarları, 2005 - 2015

ÇAVDAR İ., Project Supported by Higher Education Institutions, TOTAL EFFECTIVE DOSES OF NUCLEAR MEDICINE EMPLOYEES: A RETROSPECTIVE STUDY, 2014 - 2014

ÇAVDAR İ., Project Supported by Higher Education Institutions, Tanısal Amaçlı Radyolojik Tetkiklerde Fetüs Dozunun Hesaplanması; Konjenital Anomaliler Açısından Değerlendirilmesi, 2013 - 2013

GANİOĞLU NUTKU E., ÇAVDAR İ., Project Supported by Higher Education Institutions, Yüksek Rezolüsyonlu (3He,t) Reaksiyonuyla p^f-kabuk Çekirdeklerinin Gamow-Teller Geçişlerinin İncelenmesi, 2010 - 2013

ÇAVDAR İ., Project Supported by Higher Education Institutions, Sintigrafik Görüntülerde Kısmi Hacim Etkisinin İncelenmesi, 2012 - 2012

Patent

Çavdar İ., A PHANTOM FOR USE IN NUCLEAR MEDICINE IMAGING SYSTEMS, Utility Model, CHAPTER G Physics, The Invention Registration Number: TR 2022 011082 Y , Standard Registration, 2024

Memberships / Tasks in Scientific Organizations

Turkish Medical Physics Association, Member, 2012 - Continues, Turkey

Scientific Refereeing

EGYPTIAN JOURNAL OF RADIOLOGY AND NUCLEAR MEDICINE, National Scientific Refreed Journal, November 2023

Middle East Journal of Science, National Scientific Refreed Journal, July 2023

Middle East Journal of Science, National Scientific Refreed Journal, November 2020

Project Supported by Higher Education Institutions, BAP Research Project, Istanbul University, Turkey, December 2017

Süleyman Demirel Üniversitesi Fen Edebiyat Fakültesi Fen Dergisi, National Scientific Refreed Journal, March 2016

Metrics

Publication: 38

Citation (WoS): 89

Citation (Scopus): 93

H-Index (WoS): 6

H-Index (Scopus): 7

Congress and Symposium Activities

Radyasyondan Korunmada Güncel Yaklaşımlar, Attendee, İstanbul, Turkey, 2021

I. Cerrahpaşa Nörobilim Günleri, Attendee, İstanbul, Turkey, 2019

Medikal Fizik Derneği Kursu, Attendee, İstanbul, Turkey, 2018

Tübitak 20. Ulusal Gökyüzü Gözlem Şenliği, Attendee, Antalya, Turkey, 2017

9th International Physics Conference of the Balkan Physical Union, Attendee, İstanbul, Turkey, 2015

International Conference on Luminescence and ESR Dosimetry, Attendee, Ankara, Turkey, 2014

14. Ulusal Medikal Fizik Kongresi, Attendee, Antalya, Turkey, 2013

Medikal Fizikte Hesaplamalı Yöntemler MEFHEY 2013, Attendee, İstanbul, Turkey, 2013

Medikal Fizikte Hesaplamalı Yöntemler, Attendee, İstanbul, Turkey, 2013

25. Ulusal Nükleer Tıp Kongresi, Attendee, Antalya, Turkey, 2013

International Conference on High Energy and Mathematical Physics, Attendee, İstanbul, Turkey, 2013

Türk Fizik Derneği VIII. Uluslararası Parçacık Hızlandırıcıları ve Detektörleri Yaz Okulu, Attendee, Bodrum/Muğla, Turkey, 2012

Türk Fizik Derneği 29. Uluslararası Fizik Kongresi, Attendee, Bodrum/Muğla, Turkey, 2012

24. Ulusal Nükleer Tıp Kongresi, Attendee, Antalya, Turkey, 2012

Türk Fizik Derneği 28. Uluslararası Fizik Kongresi, Attendee, Bodrum/Muğla, Turkey, 2011

VIII. YUUP Çalıştayı, Attendee, Ankara, Turkey, 2009

Türk Fizik Derneği 25. Uluslararası Fizik Kongresi, Attendee, Bodrum/Muğla, Turkey, 2008

II. YUUP Çalıştayı, Attendee, Bolu, Turkey, 2006

Sixth International Conference of the Balkan Physical Union, Attendee, İstanbul, Turkey, 2006

51st Annual Conference of the SAIP, Attendee, Cape Town, South Africa, 2006

2005 Dünya Fizik Yılı, Türk Fizik Derneđi 23. Uluslararası Fizik Kongresi, Attendee, Muđla, Turkey, 2005

Türk Fizik Derneđi 22. Fizik Kongresi, Attendee, Bodrum/Muđla, Turkey, 2004

The Fourth International Balkan School on Nuclear Physics, Attendee, Bodrum/Muđla, Turkey, 2004

Invited Talks

Nuclear medicine treatment methods, Seminar, Altınbaş Üniversitesi, Turkey, April 2021

PET'de Radyasyondan Korunma, Seminar, İstanbul Altınbaş Üniversitesi Sağlık Hizmetleri Meslek Yüksek Okulu, Turkey, April 2018

Non Academic Experience

iThemba LABS

İsveç Kraliyet Enstitüsü