



FATMA ÇAĞLA AKINCI

ASST. PROF.

Email : fcozturk@istanbul.edu.tr

Other Email : fcaglaozturk@gmail.com

Office Phone : [+90 212 455 5700](tel:+902124555700) Extension: 15537

Address : İ.Ü. Fen Fakültesi Fizik Bölümü Nükleer Fizik

Anabilim Dalı 34134 Vezneciler/Fatih/İSTANBUL

International Researcher IDs

ORCID: 0000-0001-5420-9465

Publons / Web Of Science ResearcherID: AAE-5747-2020

ScopusID: 56492449600

Yoksis Researcher ID: 102533



Learning Knowledge

Doctorate
2013 - 2017

Istanbul University, Faculty Of Science, Department Of Physics, Turkey

Postgraduate
2009 - 2012

Istanbul University, Faculty Of Science, Department Of Physics, Turkey

Undergraduate
2005 - 2009

Istanbul University, Faculty Of Science, Department Of Physics, Turkey

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Investigation of the orbital electron-capture decay of hydrogen-like $^{142}\text{Pm}^{60+}$ ions at the experimental storage ring (ESR), Istanbul University, Faculty Of Science, Department Of Physics, 2017

Postgraduate, Design of the Magnets used in Linear Proton Accelerators, Istanbul University, Faculty Of Science, Department Of Physics, 2009

Academic Titles / Tasks

Supported Projects

1. Akıncı F. Ç., H2020 Project, EURO-LABS – EUROpean Laboratories for Accelerator Based Sciences, 2022 - 2026
2. Akıncı F. Ç., EU Supported Other Project, Astrophysics with Stored Highly Charged Radionuclides, 2017 - 2024
3. ÇAKIRLI MUTLU R. B., ÖZTÜRK F. Ç., Project Supported by Higher Education Institutions, Hidrojen Benzeri $^{142}\text{Pm}60+$ İyonlarının Deneysel Depolama Halkası'ndaki (DDH) Yörüngesel Elektron Yakalama Bozunumunun İncelenmesi, 2015 - 2018
4. ÇAKIRLI MUTLU R. B., ŞAHİN YALÇIN L., SÜSOY DOĞAN G., ÖZTÜRK F. Ç., ÖKTEM Y., AKKUŞ B., Project Supported by Higher Education Institutions, Deforme çekirdeklerde Zgamma değerleri ve ^{152}Nd çekirdeği, 2015 - 2018
5. ÇAKIRLI MUTLU R. B., ÖKTEM Y., ÖZTÜRK F. Ç., GANİOĞLU E., Project Supported by Higher Education Institutions, $B_{4/2} = B(E2:4^+ \rightarrow 2^+) / B(E2:2^+ \rightarrow 0^+) < 1$ anomalisi olan kolektif çekirdeklerin Yrast 2^+ , 4^+ ve 6^+ seviyelerinin yarı ömür ölçümleri, 2012 - 2017
6. 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

Scholarships

International Postdoctoral Research Fellowship Program for Turkish Citizens, TUBITAK, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Measurement of the Isolated Nuclear Two-Photon Decay in Ge72**
Freire-Fernández D., Kortzen W., Chen R. J., Litvinov Y., Sanjari M. S., Weick H., Akıncı F. Ç.
PHYSICAL REVIEW LETTERS, vol.133, no.2, pp.1-7, 2024 (SCI-Expanded)
2. **Cosmic radiation exposure calculations for international and domestic flights departs from Istanbul and Ankara**
Susam L., Alan H. Y., Yılmaz A., Erol A., İnci C. İ., Akıncı F. Ç., Akkus B., Demir M., Emirhan M. E., Faydasıcok O., et al.
Radiation Protection Dosimetry, vol.192, no.1, pp.61-68, 2020 (SCI-Expanded)
3. **Preface: Turkish Physical Society 35th International Physics Congress (TPS35)**
Akkuş B., Burcu Cakirli Mutlu R., Güdekli E., Kınacı B., Güzelçimen F., Dogan G. S., Akıncı F. Ç., Ertoprak A.
AIP Conference Proceedings, vol.2178, 2019 (SCI-Expanded)
4. **New test of modulated electron capture decay of hydrogen-like ^{142}Pm ions: Precision measurement of purely exponential decay**
ÖZTÜRK F. Ç., GUMBERIDZE A., OZAWA A., AKKUS B., SUN B. H., GAO B. S., BRANDAU C., KOZHUHAROV C., LANGER C., LEDERER-WOODS C., et al.
PHYSICS LETTERS B, no.134800, pp.1-9, 2019 (SCI-Expanded)
5. **RADON CONCENTRATIONS AND GAMMA RADIATION ACTIVITY MEASUREMENTS OF MUGLA, TURKEY**
Erdogan M. G., Akkus B., Susam L., Hafizoğlu N., Ertoprak A., Oktem Y., Ozturk F. Ç.

ROMANIAN REPORTS IN PHYSICS, no.4, 2019 (SCI-Expanded)

6. **Between atomic and nuclear physics: radioactive decays of highly-charged ions**
Atanasov D., Blaum K., Bosch F., Brandau C., Buehler P., Chen X., Dillmann I., Faestermann T., Gao B., Geissel H., et al.
JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS, vol.48, no.14, 2015 (SCI-Expanded)
7. **Solenoid Development for an Emittance Transfer Experiment With a Design Environment System**
LEIBROCK H., ROTTLAENDER P., MUEHLE C., Ozturk F. Ç.
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, vol.24, no.3, 2014 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

1. **Gamma-Ray Attenuation Properties of Boron Carbide in Radiological Energy Range Using MCNPX Code**
Tekin H. O., Altunsoy E. E., Ozturk F. Ç., Kilicoglu O., Sayyed M. I.
34th International Physics Congress of the Turkish-Physical-Society (TPS), Konacik, Turkey, 5 - 09 September 2018, vol.2042
2. **Studies at the border between nuclear and atomic physics: Weak decays of highly charged ions**
ATANASOV D., BLAUM K., BOSCH F., BRANDAU C., BUEHLER P., Cakirli R. B., CHEN X. C., Dillmann I., FAESTERMANN T., GAO B. S., et al.
30th International Conference on Photonic, Electronic, and Atomic Collisions (ICPEAC), Cairns, Australia, 26 July - 01 August 2017, vol.875
3. **Determination of Indoor Radon Concentrations at the Elementary Schools of Fatih District in Istanbul**
Kurt A., Yalcin L., Oktem Y., Akkus B., Bozkurt E., Hafizoglu N., Ozturk F. Ç., Aytan Ö., Ertoprak A.
9th International Physics Conference of the Balkan-Physical-Union (BPU), İstanbul, Turkey, 24 - 27 August 2015, vol.1722
4. **Geometry Design of an Electron Dump with Simple Geo**
ŞEKERCİ M., Ozturk F. Ç., Hafizoglu N., Ozkorucuklu S.
3rd International Conference on Mathematical Modeling in Physical Sciences (IC-MSQUARE), Madrid, Spain, 28 - 31 August 2014, vol.574

Courses

Calculus II, Undergraduate, 2020 - 2021

Çekirdek Fiziği II Uygulama, Undergraduate, 2018 - 2019

Physics IV Problem Solving, Undergraduate, 2018 - 2019

TEBIP Mekanik Lab (Biyoloji-Kimya), Undergraduate, 2018 - 2019

Çekirdek Fiziği Uygulama Laboratuvarı, Undergraduate, 2018 - 2019

Temel Tanecikler I (Uygulama), Undergraduate, 2016 - 2017

Fizik Laboratuvarı I, Undergraduate, 2016 - 2017

Nükleer Reaktör Fiziği, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011

Patent

Emirhan M. E., AKKUŞ B., GÜDEKLİ E., AKINCI F. Ç., Koronavirüs Tespiti İçin Gerçek Zamanlı Ölçüm Cihazı, Patent, CHAPTER A Human Needs, The Invention Recourse Number: 2020-08695 , Standard Registration, 2020

Emirhan M. E., AKKUŞ B., GÜDEKLİ E., AKINCI F. Ç., MİKROORGANİZMA TESPİTİNDE KULLANILMAK ÜZERE

MİKROORGANİZMALARIN YAYDIĞI IŞIĞIN ŞİDDETİNİ ARTTIRAN BİR APARAT, Patent, CHAPTER A Human Needs, The

Invention Recourse Number: 2019-18275 , Standard Registration, 2019

Emirhan M. E., AKKUŞ B., GÜDEKLİ E., AKINCI F. Ç., HASTANELERDEKİ NOZOKOMİYAL ENFEKSİYON ETKENLERİNİ GERÇEK ZAMANLI ÖLÇMEK ÜZERE BİR CİHAZ, Patent, CHAPTER A Human Needs, The Invention Recourse Number: PT2019-18242 , Standard Registration, 2019

Activities in Scientific Journals

American Intitute of Physics, Editor, 2018 - 2018

Memberships / Tasks in Scientific Organizations

TURKISH PHYSICAL SOCIETY, Member, 2012 - Continues, Turkey

Scientific Research / Working Group Memberships

Astrophysics with stored highly charged radionuclides, GSI HEAVY ION RESEARCH CENTER, Germany, https://www.gsi.de/work/forschung/appamml/atomphysik/anlagen_und_experimete/astrum.htm, 2017 - Continues
Turkish Accelerator Center, Ankara University, Turkey, http://thm.ankara.edu.tr/?bil=bil_icerik&icerik_id=131&kat_id=209, 2010 - 2020

Metrics

Publication: 11

Citation (WoS): 31

Citation (Scopus): 32

H-Index (WoS): 3

H-Index (Scopus): 3

Congress and Symposium Activities

Türk Fizik Derneği 34. Uluslararası Fizik Kongresi, Attendee, Muğla, Turkey, 2018

Türk Fizik Derneği 33. Fizik Kongrei, Attendee, Muğla, Turkey, 2017

Türk Fizik Derneği 32. Uluslararası Fizik Kongresi, Attendee, Muğla, Turkey, 2016

6. Parçacık Hızlandırıcıları ve Uygulamaları Kongresi, Attendee, Muğla, Turkey, 2016

11. Uluslararası Katılımlı Parçacık Hızlandırıcıları ve Detektörleri Yaz Okulu, Attendee, Muğla, Turkey, 2016

3rd European Nuclear Physics Conference 2015, Attendee, Groningen, Netherlands, 2015

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

DPG Spring Meeting, Attendee, Heidelberg, Germany, 2015

10th International Accelerator School on Particle Accelerators and Detectors, Attendee, Muğla, Turkey, 2014

Turkish Physical Society 31th Physics Congress, Attendee, Muğla, Turkey, 2014

8th International Accelerator School for Linear Colliders, Attendee, Antalya, Turkey, 2013

9th International Accelerator School on Particle Accelerators and Detectors, Attendee, Muğla, Turkey, 2013

5th International Congress on Particle Accelerators and Applications, Attendee, Muğla, Turkey, 2013

Turkish Physical Society 30th Physics Congress, Attendee, İstanbul, Turkey, 2013

Summer Student Programme at GSI, Attendee, Darmstadt, 2012

US Particle Accelerator School (USPAS), Attendee, Michigan, United States Of America, 2012

Winter School on Computer Applications in Particle Accelerators and Particle Physics 2 (HPFBU – 2), Attendee, Kars,

Turkey, 2012

US Particle Accelerator School (USPAS), Attendee, Texas, United States Of America, 2012

Sixth International School for Linear Colliders (ILC), Attendee, Pacific Grove, Turkey, 2011

European Physical Society (EPS) Nuclear Physics Board Meeting, Attendee, İstanbul, Turkey, 2011

Turkish Physical Society 28th International Physics Congress, Attendee, Bodrum/MUĞLA, Turkey, 2011

7th International Summer School on Particle Accelerators and Detectors, Attendee, Bodrum/MUĞLA, Turkey, 2011

JUAS (Joint Universities Accelerator School), Technologies and Applications Course, Attendee, Archamps, France, 2011

Turkish Physical Society 27th International Physics Congress, Attendee, İstanbul, Turkey, 2010

6th International Summer School on Particle Accelerators and Detectors, Attendee, Bodrum/MUĞLA, Turkey, 2010

4th National (with International Participation) Particle Accelerators and Applications Congress (UPHUK4), Attendee, Bodrum/MUĞLA, Turkey, 2010

Summer School in Cosmology, Abdus Salam International Centre for Theoretical Physics (ICTP), Attendee, Trieste, Italy, 2010

5th Workshop on Shape-Phase Transitions and Critical Point Phenomena in Nuclei, Attendee, İstanbul, Turkey, 2009

7th International Student Conference of the Balkan Physical Union, Attendee, Bodrum/MUĞLA, Turkey, 2009

Turkish Physical Society 26th International Physics Congress, Attendee, Bodrum/MUĞLA, Turkey, 2009

5th International Summer School on Particle Accelerators and Detectors, Attendee, Bodrum/MUĞLA, Turkey, 2009

Turkish Physical Society 25th International Physics Congress, Attendee, Bodrum/MUĞLA, Turkey, 2008

ISCBPU5 - Fifth International Student Conference of the Balkan Physical Union, Attendee, Bodrum/MUĞLA, Turkey, 2007

ISCBPU4 – Fourth International Student Conference of the Balkan Physical Union, Attendee, Bodrum/MUĞLA, Turkey, 2006

Research Areas

Physics, Astronomy and Astrophysics, Interdisciplinary Physics and Related Science and Technology Areas, Nuclear physics, General Nuclear Reactions, Nuclear Structure, Experimental Methods of Particle and Nuclear Physics, Natural Sciences