

ÜMİT KAYA

ASST. PROF.

Email : kayaumt@ankara.edu.tr

Office Phone : [+90 312 485 3745](tel:+903124853745) Extension: 4015

International Researcher IDs

ScholarID: --lka6AAAAAJ

ORCID: 0000-0003-0823-3848

Publons / Web Of Science ResearcherID: AFT-2403-2022

ScopusID: 56861996500

Yoksis Researcher ID: 332334

Education

Post Doctorate 2021 - 2022	Istinye University, Fen Bilimleri Enstitüsü, Turkey
Post Doctorate 2019 - 2021	Bogazici University, Fen Fakültesi, Fizik, Turkey
Doctorate 2014 - 2019	Ankara University, Fen Bilimleri Enstitüsü, Turkey
Postgraduate 2009 - 2012	Cukurova University, Fen Bilimleri Enstitüsü, Fizik, Turkey
Undergraduate 2003 - 2008	Selcuk University, Eğitim Fakültesi, Fizik Öğretmenliği, Turkey

Academic Titles / Tasks

Assistant Professor 2023 - Continues	Ankara University, Hızlandırıcı Teknolojileri Enstitüsü, Hızlandırıcı Teknolojileri Anabilim Dalı
---	---

Published journal articles indexed by SCI, SSCI, and AHCI

- An irradiation system for nuclear and materials research in a medical cyclotron**
Bulut S., Türemen G., Yeltepe E., Porsuk D., Serin N., KAYA Ü.
Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, vol.1058, 2024 (SCI-Expanded)
- Luminosity and physics considerations on HL-LHC- and HE-LHC-based $\mu\mu$ colliders**
Kaya Ü., KETENOĞLU B., Sultansoy S., Zimmermann F.
EPL, vol.138, no.2, 2022 (SCI-Expanded)
- The Large Hadron-Electron Collider at the HL-LHC**
Agostini P., Aksakal H., Alekhin S., Allport P. P., Andari N., Andre K. D. J., Angal-Kalinin D., Antusch S., Aperio Bella L.,

Apolinario L., et al.

JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.48, no.11, 2021 (SCI-Expanded)

4. **CutLang as an analysis description language for introducing students to analyses in particle physics**
Adiguzel A., Cakir O., Kaya Ü., Ozcan V. E., Ozturk S., Sekmen S., ÇAKIR İ. T., Unel G.
EUROPEAN JOURNAL OF PHYSICS, vol.42, no.3, 2021 (SCI-Expanded)
5. **HE-LHC: The High-Energy Large Hadron Collider Future Circular Collider Conceptual Design Report Volume 4**
Abada A., Abbrescia M., AbdusSalam S., Abdyukhanov I., Abelleira Fernandez J., Abramov A., Aburaia M., Acar A., Adzic P., Agrawal P., et al.
EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, vol.228, no.5, pp.1109-1382, 2019 (SCI-Expanded)
6. **FCC-hh: The Hadron Collider: Future Circular Collider Conceptual Design Report Volume 3**
Abada A., Abbrescia M., AbdusSalam S., Abdyukhanov I., Abelleira Fernandez J., Abramov A., Aburaia M., Acar A., Adzic P., Agrawal P., et al.
EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, vol.228, no.4, pp.755-1107, 2019 (SCI-Expanded)
7. **FCC-ee: The Lepton Collider: Future Circular Collider Conceptual Design Report Volume 2**
Abada A., Abbrescia M., AbdusSalam S., Abdyukhanov I., Abelleira Fernandez J., Abramov A., Aburaia M., Acar A., Adzic P., Agrawal P., et al.
EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, vol.228, no.2, pp.261-623, 2019 (SCI-Expanded)
8. **FCC Physics Opportunities: Future Circular Collider Conceptual Design Report Volume 1**
Abada A., Abbrescia M., AbdusSalam S., Abdyukhanov I., Fernandez J. A., Abramov A., Aburaia M., Acar A., Adzic P., Agrawal P., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.79, no.6, 2019 (SCI-Expanded)
9. **Resonant production of color octet muons at Future Circular Collider-based muon-proton colliders**
Acar Y. C., Kaya Ü., Oner B. B.
CHINESE PHYSICS C, vol.42, no.8, 2018 (SCI-Expanded)
10. **Future circular collider based lepton-hadron and photon-hadron colliders: Luminosity and physics**
Acar Y. C., Akay A. N., Beser S., Canbay A. C., Karadeniz H., Kaya Ü., Oner B. B., Sultansoy S.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.871, pp.47-53, 2017 (SCI-Expanded)
11. **Color octet electron search potential of FCC based e-p colliders**
Acar Y. C., Kaya Ü., Oner B. B., Sultansoy S.
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.44, no.4, 2017 (SCI-Expanded)
12. **SppC Based Energy Frontier Lepton-Proton Colliders: Luminosity and Physics**
Canbay A. C., Kaya Ü., KETENOĞLU B., Oner B. B., Sultansoy S.
ADVANCES IN HIGH ENERGY PHYSICS, vol.2017, 2017 (SCI-Expanded)
13. **New IceCube data and color octet neutrino interpretation of the PeV energy events**
Akay A. N., Cakir O., Gunaydin Y. O., Kaya Ü., Sahin M., Sultansoy S.
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, vol.30, no.26, 2015 (SCI-Expanded)

Articles Published in Other Journals

1. **A minimal fermion-scalar preonic model**
KAYA Ü., Oner B. B., Sultansoy S.
TURKISH JOURNAL OF PHYSICS, vol.42, no.3, pp.235-241, 2018 (ESCI)

Papers Published in Refereed Scientific Meetings

1. **Manufacturing and testing of the 800 MHz RFQ at KAHVELab**
KAYA Ü.

IPAC2023, Italy, 7 - 12 May 2023

2. **An Experimental Setup for PIXE Analysis in a Medical Cyclotron at TENMAK-NUKEN**

Türemen G., BULUT S., KAYA Ü., Porsuk D., Serin N. Ö.

12th International Beam Instrumentation Conference (IBIC 2023), Saskatoon, Canada, 10 - 14 September 2023

3. **Compact Proton Accelerator in UHF Band At KAHVELab**

KAYA Ü.

LINAC2022, England, 28 - 25 August 2022

4. **Search for the Chiral Fourth Family Up Type Quark at The LHC and FCC**

CANBAY A. C., SULTANOV S., Kaya Ü.

TFD 33. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 10 September 2017

Academic and Administrative Experience

2024 - Continues **Institute Board Member** Ankara University, Hızlandırıcı Teknolojileri Enstitüsü

Courses

Doctorate

Parçacık Hızlandırıcıların Malzeme Bilimi Uygulamaları, Doctorate, 2024 - 2025

Postgraduate

Applications of Medical and Industrial Accelerators, Postgraduate, 2024 - 2025

Vacuum Technologies, Postgraduate, 2024 - 2025

Applications of Medical and Industrial Accelerators, Postgraduate, 2023 - 2024

Peer Reviews in Scientific Publications

Turkish Journal of Nuclear Sciences, National Scientific Refreed Journal, November 2023

Metrics

Publication: 18

Citation (WoS): 1610

Citation (Scopus): 2242

H-Index (WoS): 7

H-Index (Scopus): 7

Research Areas

Physics, High Energy Physics

Non Academic Experience

TENMAK-NÜKEN, Uzman Araştırmacı

İstinye Üniversitesi, Doktora Sonrası Araştırmacı

Boğaziçi Üniversitesi, Doktora Sonrası Araştırmacı