

Assoc. Prof. MAHMUT BÖYÜKATA

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: F-4590-2015

Yoksis Researcher ID: 124350

Education Information

Post Doctorate, Universitaet zu Köln, , Fizik, Germany 2012 - 2013

Doctorate, Kirikkale University, Institute Of Science, Fizik, Turkey 2005 - 2010

Postgraduate, Kirikkale University, Institute Of Science, Fizik, Turkey 2003 - 2005

Undergraduate, Ankara University, Fen Fakültesi, Fizik, Turkey 1999 - 2003

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, 150 \leq A \leq 190 deforme bölgesinde bazı çift-tek çekirdeklerin uyarılmış düzeylerinin yapısının ve geçişlerinin kutupsallıklarının incelenmesi, Kirikkale University, Fen Bilimleri Enstitüsü, Fizik, 2010

Postgraduate, Bazı çift-çift selenyum izotoplarının çekirdek yapısı ve elektromanyetik geçişlerinin kutupsal karışımlarının incelenmesi, Kirikkale University, Fen Bilimleri Enstitüsü, Fizik, 2005

Research Areas

Physics, Nuclear physics, Properties of Nuclei, Nuclear Structure, Natural Sciences

Academic Titles / Tasks

Associate Professor, Canakkale Onsekiz Mart University, Eğitim Fakültesi, İlköğretim, 2012 - Continues

Assistant Professor, Canakkale Onsekiz Mart University, Eğitim Fakültesi, İlköğretim, 2011 - 2012

Research Assistant PhD, Kirikkale University, Fen Edebiyat , Fizik, 2010 - 2011

Research Assistant, Kirikkale University, Fen Edebiyat , Fizik, 2003 - 2010

Academic and Administrative Experience

Courses

GENEL FİZİK I, Undergraduate, 2013 - 2014
FEN EĞİTİMİNDE İLERİ FİZİK, Postgraduate, 2013 - 2014
BİLİMSEL ARAŞTIRMA YÖNTEMLERİ, Undergraduate, 2013 - 2014
FİZİKTE ÖZEL KONULAR, Undergraduate, 2013 - 2014
GENEL FİZİK LAB. I, Undergraduate, 2013 - 2014
GENEL FİZİK LAB. II, Undergraduate, 2011 - 2012
MODERN FİZİĞE GİRİŞ, Undergraduate, 2011 - 2012
GENEL FİZİK II, Undergraduate, 2011 - 2012

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **ODD NUCLEI AND SHAPE PHASE TRANSITIONS: THE ROLE OF THE UNPAIRED FERMION**
FORTUNATO L., Alonso C. E., Arias J. M., BÖYÜKATA M., VITTURI A.
INTERNATIONAL JOURNAL OF MODERN PHYSICS E-NUCLEAR PHYSICS, vol.20, no.2, pp.207-212, 2011 (SCI-Expanded)
- II. **Description of nuclei in the A similar to 100 mass region with the interacting boson model**
BÖYÜKATA M., VAN ISACKER P., Uluer I.
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.37, no.10, 2010 (SCI-Expanded)
- III. **Shape phase transition in odd-even nuclei: From spherical to deformed gamma-unstable shapes**
BÖYÜKATA M., Alonso C. E., Arias J. M., FORTUNATO L., VITTURI A.
PHYSICAL REVIEW C, vol.82, no.1, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **Effect of deformation on gamow-teller strength and electroncapture cross-section for isotopes of chromium**
ULLAH A., RİAZ M., NABİ J. U., BÖYÜKATA M., ÇAKMAK N.
Bitlis Eren University Journal of Science and Technology, vol.10, no.1, pp.25-29, 2020 (Peer-Reviewed Journal)
- II. **Shell Model Calculations for some pf Shell Nuclei**
AKKOYUN S., BAYRAM T., BÖYÜKATA M.
ALKÜ Fen Bilimleri Dergisi, vol.1, pp.18-22, 2019 (Peer-Reviewed Journal)
- III. **Fen Bilimleri Öğretmen Adaylarının Elektriksel Direnç Kavramı Hakkındaki Ön Bilgilerinin Belirlenmesi**
APAYDIN S., ŞAHİN E., TEZCAN G., BÖYÜKATA M.
Abant İzzet Baysal Üniversitesi Eğitim Fakültesi Dergisi, vol.19, no.1, pp.1-19, 2019 (Peer-Reviewed Journal)
- IV. **Extended interacting boson model description of Pd nuclei in the A 100 transitional region**
BÖYÜKATA M., Ellinger E., Fransen C., Jolie J.
EPJ Web of Conferences, vol.66, no.2013, pp.1-4, 2014 (Peer-Reviewed Journal)
- V. **Description of Exotic Nuclei with the Interacting Boson Model**
BÖYÜKATA M., VAN ISACKER P., ULUER İ.
FRONTIERS OF FUNDAMENTAL AND COMPUTATIONAL PHYSICS, vol.1072, pp.223-228, 2008 (Peer-Reviewed Journal)

Books & Book Chapters

I. Bölüm 18 : Nükleer Enerji Santralleri

BÖYÜKATA M.

in: Nükleer Enerji Nükleer Süreç Kavramlarına Sistemlerine ve Uygulamalarına Giriş, Ahmet Hakan Yılmaz, Abdullah Aydın, Tuncay Bayram, Serkan Akkoyun, Ahmet Alper Billur , Editor, Nobel Yayın Dağıtım, pp.291-314, 2015

Refereed Congress / Symposium Publications in Proceedings

I. Theoretical calculations of energy levels for even-even Si, S and Ar nuclei

AKKOYUN S., BÖYÜKATA M.

5th International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Amasya, Turkey, 2 - 04 May 2019, pp.7-8

II. Shell Model Calculations for some pf Shell Nuclei

AKKOYUN S., BAYRAM T., BÖYÜKATA M.

International Conference on Nuclear Structure Properties (NSP2018), Trabzon, Turkey, 12 - 14 September 2018, pp.18-22

III. The gamma-band Behavior Of The Nuclei In The Se-geRegion

BÖYÜKATA M., ULUER İ.

X. International Conference On Nuclear Structure Properties, 20 - 22 September 2017

IV. Calculation Of The Cross Sections Of $^{96,98,104}\text{Ru}(p, \gamma)$ Reactions For Different The Level Density Models And ρ -strength Function Models

BOYDAŞ H., AYDIN A., BÖYÜKATA M.

X. International Conference On Nuclear Structure Properties, 20 - 22 September 2017

V. The Deformation Effect On The CrossSection Calculations

BÖYÜKATA M., SARPÜN İ. H., AYDIN A.

Sixth Bozok Science Workshop Studies FromNuclei To Nanomaterials With Applications, 23 - 25 August 2017

VI. Study On The Electromagnetic Transition ProbabilitiesFor $^{78-86}\text{Sr}$ Nuclei

BİLİR C., BÖYÜKATA M.

Sixth Bozok Science Workshop Studies FromNuclei To Nanomaterials With Applications, 23 - 25 August 2017

VII. The Investigation Of $B(e2)$ Values In $^{82-88}\text{Zr}$ Isotopes Within $IBM-1$

AYDOĞAN M., BÖYÜKATA M.

Sixth Bozok Science Workshop Studies FromNuclei To Nanomaterials With Applications, 23 - 25 August 2017

VIII. The calculation of the deformation parameter of ^{150}Nd target and its effect of this parameter on the cross sections of $(\gamma, 2n)$, $(n, 2n)$, $(p, 2n)$ reactions

BÖYÜKATA M., SARPÜN İ. H., AYDIN A.

3rd Int. Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT 2017), 10 - 12 May 2017

IX. Teknolojik Pedagogik Sınıf Ortamının Öğrencilerin Fen Akademik Başarısına Ve Motivasyonlarına Etkisi

DEVELİ G., BÖYÜKATA M., TİMUR S.

VII. Uluslararası Eğitimde Araştırmalar Kongresi, 27 - 29 April 2017

X. The Effect of the Deformation Parameter on the Cross Sections for $^{110}\text{Pd} + n$ ^{111}Ag and $^{110}\text{Pd} + 2n$ ^{110}Ag Reactions

BÖYÜKATA M., SARPÜN İ. H., AYDIN A.

International Underground Resources and Energy Conference, 6 - 08 October 2016

XI. The Evidence of the ^{06}O Nucleus Along the $Z = 42$ Line in the $A = 80$ Region

BÖYÜKATA M.

Turkish Physical Society 31th International Physics Congress, 6 - 09 September 2016

- XII. **Searching E 5 Behaviour for Ru Isotopes in the N 50 Region**
BÖYÜKATA M., ULUER İ.
IX. International Workshop on Nuclear Structure Properties (NSP2016), 1 - 03 September 2016
- XIII. **Nuclear Structure of Exotic Proton Rich Waiting Point Nuclei in the A 70 Mass Region**
BÖYÜKATA M., NABI J. U.
International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, 28 - 30 April 2016
- XIV. **Quantum phase transitions in odd-A nuclei: The effect of the odd particle from spherical to oblate shapes**
BÖYÜKATA M., Alonso C. E., Arias J. M., Fortunato L., Vitturi A.
11th International Spring Seminar on Nuclear Physics - Shell Model and Nuclear Structure - Achievements of the Past Two Decades, Ischia, Italy, 12 - 16 May 2014, vol.580
- XV. **Quantum shape phase transitions from spherical to deformed for Bose-Fermi systems: the effect of the odd particle around the critical point**
BÖYÜKATA M., Alonso C. E., Arias J. M., Fortunato L., Vitturi A.
International Nuclear Physics Conference (INPC), Firenze, Italy, 2 - 07 June 2013, vol.66
- XVI. **Extended interacting boson model description of Pd nuclei in the A similar to 100 transitional region**
BÖYÜKATA M., Ellinger E., Fransen C., Jolie J.
INPC 2013 - INTERNATIONAL NUCLEAR PHYSICS CONFERENCE, Firenze, Italy, 2 - 07 June 2013, pp.23
- XVII. **Investigation of A similar to 100 mass region up to exotic with interacting boson model**
BÖYÜKATA M., Uluer İ.
Rabida International Scientific Meeting on Nuclear Physics, La Rabida, Spain, 4 - 10 July 2009, vol.1231, pp.201-202
- XVIII. **Description of Exotic Nuclei with the Interacting Boson Model**
BÖYÜKATA M., Van Isacker P., ULUER İ.
CONFERENCE ON NUCLEAR PHYSICS AND ASTROPHYSICS - FROM STABLE BEAMS TO EXOTIC NUCLE, Cappadocia (Turkey), Turkey, 25 - 30 June 2008, pp.52
- XIX. **Some electromagnetic transition probabilities and energy levels of ⁷⁶Se isotope**
ULUER İ., BÖYÜKATA M.
The fourth eurasian conference nuclear science its application., Baku, Azerbaijan, 31 October - 03 November 2006

Metrics

Publication: 29

Citation (WoS): 55

Citation (Scopus): 59

H-Index (WoS): 3

H-Index (Scopus): 3

Non Academic Experience

Çankale Onsekiz Mart Üniversitesi

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Kırıkkale Üniversitesi

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