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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAD-5930-2020

ScopusID: 6701759692

Yoksis Researcher ID: 11742

Education Information

Doctorate, Istanbul University, Institute of Graduate Studies In Sciences, Fizik/Nükleer Fizik, Turkey 1989 - 1993

Postgraduate, Istanbul Technical University, Nükleer Enerji Enstitüsü, Nükleer Mühendislik, Turkey 1984 - 1986

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği, Turkey 1974 - 1979

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, 45Sc ve 55Mn için Hızlı Nötron Tepkileşmeleri Uyarılma Fonksiyonlarının İncelenmesi , Istanbul University, Institute of Graduate Studies In Sciences, Fizik, 1993

Postgraduate, Isı yutucu ortam kaybının hata ağacı yöntemi ile analizi, Istanbul Technical University, Nükleer Enerji Enstitüsü, Nükleer Mühendislik, 1986

Research Areas

Physics, Nuclear physics, General Nuclear Reactions, Nuclear Structure, Nuclear Engineering and Nuclear Energy Studies, Experimental Methods of Particle and Nuclear Physics, Radioactive decay and in-beam spectroscopy, Natural Sciences

Academic Titles / Tasks

Professor, Istanbul University, Faculty of Science, Department of Physics, 2004 - Continues

Associate Professor, Istanbul University, Faculty of Science, Department of Physics, 1998 - 2004

Assistant Professor, Istanbul University, Faculty of Science, Department of Physics, 1997 - 1998

Academic and Administrative Experience

İstanbul Üniversitesi, Faculty of Science, Fizik, 2008 - 2011

İstanbul Üniversitesi, Faculty of Science, Fizik, 2001 - 2004

Courses

Genel Fizik III_Lab, Undergraduate, 2017 - 2018

Fizik I, Undergraduate, 2017 - 2018, 2015 - 2016

Fizik, Associate Degree, 2013 - 2014

Nükleer Reaksiyon Teorisi II, Postgraduate, 2013 - 2014

Nükleer Reaksiyon Teorisi I, Postgraduate, 2013 - 2014

FİZİK I, Undergraduate, 2012 - 2013, 2011 - 2012

GENEL FİZİK II, Undergraduate, 2012 - 2013, 2011 - 2012

NÜKLEER REAKSİYON TEORİSİ I, Postgraduate, 2012 - 2013, 2011 - 2012, 2009 - 2010

FİZİK II, Undergraduate, 2012 - 2013

İLERİ FİZİK UYGULAMALARI, Undergraduate, 2012 - 2013, 2011 - 2012, 2009 - 2010

NÜKLEER REAKSİYON TEORİSİ II, Postgraduate, 2012 - 2013, 2011 - 2012, 2009 - 2010

GENEL FİZİK I, Undergraduate, 2012 - 2013, 2011 - 2012

FİZİK II, Undergraduate, 2011 - 2012

FİZİK I, Undergraduate, 2011 - 2012

FİZİK I, Undergraduate, 2011 - 2012

FİZİK II, Undergraduate, 2011 - 2012

FİZİK II, Undergraduate, 2011 - 2012

FİZİK , Associate Degree, 2011 - 2012

Nükleer Spektroskopi II, Doctorate, 2009 - 2010, 2007 - 2008

Çekirdek Fiziki Uygulamaları , Undergraduate, 2009 - 2010

Nükleer Spektroskopi I , Doctorate, 2009 - 2010, 2007 - 2008

Genel Fizik , Undergraduate, 2009 - 2010

ÇEKİRDEK FİZİĞİ I, Undergraduate, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2001 - 2002, 1999 - 2000

ÇEKİRDEK FİZİĞİ II, Undergraduate, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001, 1999 - 2000

Advising Theses

BOSTAN İ. M., EGZOTİK ÇEKİRDEKLERDE UYARILMIŞ SEVİYE ÖMÜRLERİ VE NÜKLEER MOMENTLER, Doctorate, A.Kuşoğlu(Student), 2016

BOSTAN İ. M., Spin-yörünge potansiyelinin valans nükleon sayısı ile değişimi, Postgraduate, A.Kuşoğlu(Student), 2009

BOSTAN İ. M., Hızlı Nötron Tepkimeleri İçin İstatistik Model Hesabı, Postgraduate, E.Kılıç(Student), 2004

BOSTAN İ. M., $14N + 235U$ Füzyon-Fisyon Tepkime Ürünlerinde Elektrik Kuadrupol Geçiş Şiddetleri, Postgraduate, E.Şahin(Student), 2003

BOSTAN İ. M., Endüstriyel Uygulamalarda Radyografin X-ışını Enerjisi ve Malzeme Cinsine Duyarlılığı, Postgraduate, M.Türkmen(Student), 2001

BOSTAN İ. M., Seviye Karışım spektroskopisi Tekniği ile Çekirdek Kuadrupol Momentinin İncelenmesi, Postgraduate, F.Orgun(Student), 2001

Jury Memberships

Associate Professor Exam, Doçentlik Sınav Jürisi, Osmaniye Korkut Ata Üniversitesi, April, 2018

Associate Professor Exam, Doçentlik sınav Jürisi, İstanbul Üniversitesi, October, 2017

Associate Professor Exam, Doçentlik Sınav Jürisi, Uludağ Üniversitesi, March, 2014
Associate Professor Exam, Doçentlik Sınav Jürisi, Uludağ Üniversitesi, October, 2013
Post Graduate, Tez savunma jürisi, Fen Bilimleri Enstitüsü, January, 2013
Post Graduate, Tez savunma jürisi, Fen Bilimleri Enstitüsü, June, 2010
Post Graduate, Tez savunma jürisi, Fen Bilimleri Enstitüsü, January, 2010
Post Graduate, Tez savunma jürisi, Fen Bilimleri Enstitüsü, December, 2009

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Magnetic moment of the 13/2(+) isomeric state in Cu-69: Spin alignment in the one-nucleon removal reaction**
KUSOGLU A., GEORGIEV G., SOTTY C., BALABANSKI D. L., GOASDUFF A., ISHII Y., ABE Y., ASAHİ K., BOSTAN M., CHEVRIER R., et al.
PHYSICAL REVIEW C, vol.93, no.5, 2016 (SCI-Expanded)
- II. **Magnetism of an Excited Self-Conjugate Nucleus: Precise Measurement of the g Factor of the 2(1) (+) State in Mg-24**
KUSOGLU A., Stuchbery A. E., GEORGIEV G., Brown B. A., GOASDUFF A., ATANASOVA L., BALABANSKI D. L., BOSTAN M., DANCHEV M., Detistov P., et al.
PHYSICAL REVIEW LETTERS, vol.114, no.6, 2015 (SCI-Expanded)
- III. **Structure of the N=50 As, Ge, Ga nuclei**
SAHİN E., DE ANGELIS G., DUCHENE G., FAUL T., GADEA A., Lisetskiy A. F., ACKERMANN D., ALGORA A., Aydin S., AZAIEZ F., et al.
NUCLEAR PHYSICS A, vol.893, pp.1-12, 2012 (SCI-Expanded)
- IV. **Gamma-ray fast-timing coincidence measurements from the 0-18+0-18 fusion-evaporation reaction using a mixed LaBr3-HPGe array**
Alharbi T., Mason P. J. R., Regan P. H., Podolyak Z., Marginean N., Nakhostin M., Bowry M., Bucurescu D., Cata-Danil G., Cata-Danil I., et al.
APPLIED RADIATION AND ISOTOPES, vol.70, no.7, pp.1337-1339, 2012 (SCI-Expanded)
- V. **Half-life of the I-pi=4(-) intruder state in P-34: M2 transition strengths approaching the island of inversion**
Mason P. J. R., Alharbi T., Regan P. H., Marginean N., Podolyak Z., Simpson E. C., Alkhomashi N., Bender P. C., Bowry M., Bostan M., et al.
PHYSICAL REVIEW C, vol.85, no.6, 2012 (SCI-Expanded)
- VI. **THE EFFECT OF VALENCE NEUTRONS ON SPIN-ORBIT SPLITTING**
Kusoglu A., Bostan M., Erduran M. N.
ACTA PHYSICA POLONICA B, vol.42, pp.497-503, 2011 (SCI-Expanded)
- VII. **Nuclear Data Sheets for A=84**
Abriola D., Bostan M., Erturk S., Fadil M., Galan M., Juutinen S., Kibedi T., Kondev F., Luca A., Negret A., et al.
NUCLEAR DATA SHEETS, vol.110, no.11, pp.2815-2942, 2009 (SCI-Expanded)
- VIII. **High-spin states in Au-191, Au-193 and Pt-192: Evidence for oblate deformation and triaxial shapes**
Oktem Y., Balabanski D. L., Akkus B., Beausang W., Bostan M., Cakirli R. B., Casten R. F., Danchev M., Djongolov M., Erduran M. N., et al.
PHYSICAL REVIEW C, vol.76, no.4, 2007 (SCI-Expanded)
- IX. **Study of fission fragments produced by N-14+U-235 reaction**
Yalcinkaya M., Ganioglu E., Erduran M. N., Akkus B., Bostan M., Guerdal G., Erturk S., Balabanski D. L., Rainovski G., Danchev M., et al.
EUROPEAN PHYSICAL JOURNAL A, vol.27, pp.201-204, 2006 (SCI-Expanded)
- X. **Cross-section measurements for the Mo-97 (n,p) Nb-97m reaction at the neutron energies from 13.6 to 14.9 MeV**
Bostan M., Gultekin E., Reyhancan I.

- ANNALS OF NUCLEAR ENERGY, vol.30, no.18, pp.1821-1828, 2003 (SCI-Expanded)
- XI. **Delayed backbending in the $\pi h(9/2)$ band of Ir-187**
 Danchev M., Balabanski D. L., Yigitoglu I., Akkus B., Beausang C., Bostan M., Casten R., Djongolov M., Erduran M. N., Erturk S., et al.
 PHYSICAL REVIEW C, vol.68, no.5, 2003 (SCI-Expanded)
- XII. **Measurements of isomeric cross sections for (n,2n) reaction on Ce-140, Nd-142 and Sm-144 isotopes around 14 MeV**
 Reyhancan I., Bostan M., Durusoy A., Elmali A., Baykal A., Ozbir Y.
 ANNALS OF NUCLEAR ENERGY, vol.30, no.15, pp.1539-1547, 2003 (SCI-Expanded)
- XIII. **Cross-section measurements for the (n,p) and (n, α) reactions on Na-23 and for the (n,p) reaction on Mg-26 at the neutron energies from 13.6 to 14.9 MeV**
 Bostan M., Gultekin E.
 ANNALS OF NUCLEAR ENERGY, vol.29, no.17, pp.2019-2027, 2002 (SCI-Expanded)
- XIV. **Cross-section measurements for short-lived isotopes of Ti-46, As-75 and Mo-92 at the neutron energies from 13.6 to 14.9 MeV**
 Gultekin E., Bostan M., Erduran M., Subasi M., Sirin M.
 ANNALS OF NUCLEAR ENERGY, vol.28, no.1, pp.53-62, 2001 (SCI-Expanded)
- XV. **(n, α) reaction cross sections of Ca-44, Sc-45, and V-51 nuclei from 13.6 to 14.9 MeV**
 Subasi M., Erduran M., Bostan M., Reyhancan I., Gultekin E., Tarcan G., Ozbir Y., Durusoy A.
 NUCLEAR SCIENCE AND ENGINEERING, vol.130, no.2, pp.254-260, 1998 (SCI-Expanded)
- XVI. **Isomeric cross section ratio for the (n,2n) reaction on Sc-45 from 13.6 to 14.9 MeV**
 BOSTAN M., Erduran M., Sirin M., Subasi M.
 PHYSICAL REVIEW C, vol.56, no.2, pp.918-921, 1997 (SCI-Expanded)
- XVII. **Measurement of Ti-50(n, α)Ca-47 reaction cross sections for 13.6- to 14.9-MeV neutrons**
 Subasi M., Bostan M., Erduran M., Durusoy A., Gultekin E., Tarcan G., Ozbir Y.
 NUCLEAR SCIENCE AND ENGINEERING, vol.122, no.3, pp.423-427, 1996 (SCI-Expanded)
- XVIII. **Pre-equilibrium emission effect on some (n, α) reaction cross-section calculations**
 BOSTAN M., Erduran M., Şirin M.
 Balkan Physics Letters, vol.3, no.4, pp.231-235, 1995 (SCI-Expanded)
- XIX. **EXCITATION-FUNCTIONS OF THRESHOLD REACTIONS ON SC-45 AND MN-55 INDUCED BY 6 TO 13 MEV NEUTRONS**
 BOSTAN M., Qaim S.
 PHYSICAL REVIEW C, vol.49, no.1, pp.266-271, 1994 (SCI-Expanded)

Articles Published in Other Journals

- I. **Lifetime Measurement in Neutron-rich Cu Isotopes**
 Doncel M., Sahin E., Görden A., Gadea A., Angelis G. d., Quintana B., Valiente-Dobon J., Louchart C., Korten W., Albers M., et al.
 LNL Annual Report 2010, vol.234, pp.5, 2011 (Peer-Reviewed Journal)
- II. **Study of neutron-rich nuclei around N=50 toward $^{78}\text{Ni}:\gamma\text{-}\gamma$ thick target experiment with the $^{82}\text{Se} + ^{238}\text{U}$ reaction**
 Sahin E., Angelis G. D., Gadea A., Ur C., Valiente-Dobon J., Aydin S., Bazzacco D., Bostan İ. M., Didierjean F., Erduran M., et al.
 LNL Annual Report 2009, no.230, pp.10, 2010 (Peer-Reviewed Journal)
- III. **Nuclear shell Model Calculations around $1f_{7/2}$ Shell**
 BOSTAN M., Erduran M., Ercan A., Akkuş B.
 Turkish Journal of Nuclear Sciences, vol.17, no.1, 1990 (Peer-Reviewed Journal)

Books & Book Chapters

I. Parçacık Fiziği

BOSTAN M., Aydın A., Akkuş B., Birgül Ö., Bor D., Dinçer S., Doğru M., Erbil H., Gümüş H., Güven H., et al.
in: Nükleer Fizik, 2. Cilt, Başar Şarer, Editor, Palme Yayıncılık, Ankara, pp.701-746, 2001

Refereed Congress / Symposium Publications in Proceedings

- I. **Nuclear g-factor measurement with time-dependent recoil in vacuum in radioactive-beam geometry**
Kusoglu A., Stuchbery A. E., Georgiev G., Goasduff A., Atanasova L., Balabanski D. L., Bostan M., Danchev M., Detistov P., Gladnıshki K., et al.
1st NUBA International Conference on Nuclear Physics and Astrophysics, Antalya, Turkey, 14 - 21 September 2014, vol.590
- II. **Shape transition in the neutron-rich Os isotopic chain**
John P. R., Modamio V., Gadea A., Angelis G. d., Valiente-Dobon J., Benzoni G., BOSTAN M., Bowry M., Alexander T., Bazzacco D., et al.
European Radioactive Ion Beam Conference 2012, Venedik, Italy, 1 - 04 May 2012, pp.88
- III. **Half-life of the I-pi=4(-) Intruder State in P-34 Using LaBr3:Ce Fast Timing**
Mason P. J. R., Alharbi T., Regan P. H., Marginean N., Podolyak Z., Alkhomashi N., Bender P. C., Bowry M., Bostan M., Bucurescu D., et al.
Rutherford Centennial Conference on Nuclear Physics, Manchester, United Kingdom, 8 - 12 August 2011, vol.381
- IV. **Spin-Orbit Splitting Calculations for Some Closed-Shell Nuclei**
Kusoglu A., BOSTAN İ. M.
17th Euroschool on Exotic Beams, Spain, 1 - 04 September 2010, pp.25
- V. **Shell Evolution in Exotic Nuclei**
Kusoglu A., BOSTAN İ. M.
NUFRA 2009 Second International Conference on Nuclear Fragmentation From Basic Research to Applications, Turkey, 1 - 04 November 2009, pp.15
- VI. **Isospin dependence of spin-orbit potential**
Kusoglu A., BOSTAN M.
The 6th Balkan School on Nuclear Physics, Bulgaria, 1 - 04 September 2008, pp.5
- VII. **Nuclear structure far from stability at the N=50 shell closure**
Sahin E., de Angelis G., Gadea A., Duchene G., Faul T., Napoli D. R., Farnea E., Valiente-Dobon J. J., Orlandi R., Mengoni D., et al.
Conference on Frontiers in Nuclear Structure, Astrophysics, and Reactions, Creteil, France, 10 - 14 September 2007, vol.1012, pp.139-140
- VIII. **Study of Mass A= 130 Fission Fragments in the 14N+238,235U Reaction at 10 MeV/A**
BOSTAN M., Balabanski D., Minkova A., Rainovski G., Akkuş B., Rainovski G., Gürdal G., Erduran M. N., Yalçinkaya M., Beetge R., et al.
The Seventh International Conference on Nucleus-Nucleus Collisions, France, 1 - 04 February 2001, pp.1010
- IX. **Recent results from spectroscopy of neutron-rich nuclei**
BOSTAN M., Balabanski D., Danchev M., Erduran M., Akkuş B., Ertürk S., Gürdal G., Yalçinkaya M., Beetge R., Fearick R., et al.
The Seventh International Conference on Nucleus-Nucleus Collisions, France, 1 - 04 January 2001, pp.1014
- X. **Measurement of formation cross sections for very short lived isotopes at the neutron energies from 13.6 to 14.9 MeV**
Bostan M., Erduran M., Gultekin E., Subasi M., Sirin M.
International Conference on Nuclear Data for Science and Technology, Trieste, Italy, 19 - 24 May 1997, vol.59, pp.622-624
- XI. **14.6MeV neutron induced reaction cross-section measurements**

BOSTAN M., Ercan A., Erduran M., Subaşı M., Tarcan G., Baykal A.

International Conference on Nuclear Data for Science and Technology, Germany, 1 - 04 May 1992, pp.378

Supported Projects

KUŞOĞLU A., BOSTAN İ. M., Project Supported by Higher Education Institutions, Elektromanyetik Moment Ölçümleri ile Farklı Reaksiyonlarda Nükleer Spin Yönelimleri, 2016 - 2018

BOSTAN İ. M., KUŞOĞLU A., YALÇINKAYA M., Project Supported by Higher Education Institutions, Nötron Zengin Osmiyum İzotoplarında Şekil Faz Geçişinin İncelenmesi, 2011 - 2014

YALÇINKAYA M., BOSTAN İ. M., KUŞOĞLU A., TUBITAK Project, Uygulamalı ve Temel Araştırmalarda Yeni Bir Sintilatör Malzemesi Olarak LantanyumBromür, 2010 - 2012

BOSTAN İ. M., KUŞOĞLU A., Project Supported by Higher Education Institutions, Spin-yörünge Potansiyelinin Valans Nükleon Sayısı ile Değişimi, 2008 - 2010

BOSTAN İ. M., EU Supported Other Project, European nuclear structure integrated infrastructure initiative (EURONS):Research Activities of Southeast and Northeast European Nuclear Physics Groups at the European Large Scale Facilities: Status and Future Possibilities, 2005 - 2009

BOSTAN İ. M., Other International Funding Programs, Formation Cross Section Measurements of Short-lived Nuclei in The Energy Range from 13.6 to 14.9 MeV, 1995 - 1997

BOSTAN İ. M., Other International Funding Programs, Nuclear Measurements Techniques, 1990 - 1995

Activities in Scientific Journals

Balkan Physics Letters, Special Issue Editor, 1997 - 2000

Balkan Physics Letters, Special Issue Editor, 1997 - 2000

İstanbul Üniversitesi Fen Fakültesi Astronomi ve Fizik Dergisi, Editor, 1998 - 1998

Scientific Refereeing

TUBITAK Project, December 2017

TUBITAK Project, February 2011

Turkish Journal of Physics, Makale Kodu:Fiz-0904-5, National Scientific Refreed Journal, April 2010

Annals of Nuclear Energy, SCI Journal, May 2004

Annals of Nuclear Energy, SCI Journal, January 2003

Metrics

Publication: 34

Citation (WoS): 237

Citation (Scopus): 227

H-Index (WoS): 10

H-Index (Scopus): 10

Congress and Symposium Activities

Workshop for Nuclear Structure and Decay Data Evaluators, ENSDF-2009, Attendee, Bükreş, Romania, 2009

Meeting on "Reference data libraries for advanced nuclear applications (ENSDF)" IAEA Headquarters., Attendee, Viyana, Austria, 2008

6th Balkan School on Nuclear Physics, Attendee, Troyan, Bulgaria, 2008
International Nuclear Physics Conference, INPC 2001, Attendee, California, Berkeley, United States Of America, 2001
Second International Balkan School on Nuclear Physics, Attendee, Muğla, Bodrum, Turkey, 2000
4th General Conference of The Balkan Physical Union, Attendee, Veliko Turnovo, Bulgaria, 2000
7th International Conference on Nucleus Nucleus Collisions, Attendee, Strasbourg, France, 2000
VIII ICFA School on Instrumentation in Elementary Particle Physics, Attendee, İstanbul, İstanbul Üniversitesi, Turkey, 1999
The Nucleus, New Physics for the New Millennium, Attendee, Cape-Town, Faure, South Africa, 1999
International Balkan School on Nuclear Physics, Attendee, İstanbul, Turkey, 1998
Workshop on Nuclear Reaction Data and Nuclear Reactors, Physics Design and Safety, Attendee, Trieste, ICTP, Italy, 1998
TFD-17, Attendee, Alanya, Turkey, 1997
International Conference on Nuclear Data for Science and Technology., Attendee, Trieste, Italy, 1997
TFD-16, Attendee, Ayvalık, Turkey, 1996
XII International School on Nuclear Physics, Neutron Physics and Nuclear Energy, Attendee, Varna, Bulgaria, 1995
TFD-15, Attendee, Kaş/Antalya, Turkey, 1995
Collective motion and Nuclear Dynamics, Attendee, Predeal, Romania, 1995
BPU-2 Second General conference of The Balkan Physical Union, Attendee, İzmir, Turkey, 1994
13th International Workshop on Nuclear Theory, Attendee, Rila, Bulgaria, 1994
TFD-14, Attendee, Lefkoşe/KKTC, Turkey, 1993
International Conference on Nuclear Data for Science and Technology, Attendee, Juelich, Germany, 1991
V, Ulusal Nükleer Bilimler Kongresi, Attendee, Ege Üniversitesi/İzmir, Turkey, 1991
TFD-12, Attendee, Ege Üniversitesi/İzmir, Turkey, 1990
TFD-10, Attendee, İstanbul Üniversitesi/İstanbul, Turkey, 1988
TFD-9, Attendee, Uludağ Üniversitesi/Bursa, Turkey, 1987

Scholarships

IAEA Fellowship Programme, Other International Organizations, 1991 - Continues

Non Academic Experience

İstanbul Üniversitesi

Other Public Institution, Türkiye Atom Enerjisi Kurumu

Türkiye Atom Enerjisi Kurumu