

Personal Information

Email: hasanozdogan@akdeniz.edu.tr

Web: <https://avesis.akdeniz.edu.tr/hasanozdogan>

Education Information

Doctorate, Akdeniz University, Institute of Health Sciences , Biyofizik, Turkey 2014 - Continues

Doctorate, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2012 - 2018

Postgraduate, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2010 - 2012

Undergraduate, Ankara University, Dijital Fabrika Teknolojileri Programı, Fizik, Turkey 2004 - 2010

Foreign Languages

English, B1 Intermediate

Dissertations

Doctorate, Fe, Zr, Nb ve Ag Füzyon Reaktörleri Yapısal Elementlerinin Tesir Kesitlerinin Nükleer Reaksiyon Modelleri Kullanılarak İncelenmesi, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Fizik/Nükleer Fizik, 2018

Postgraduate, BAZI AĞIR HEDEF ÇEKİRDEKLER İÇİN DENGİ VE DENGİ-ÖNCESİ ETKİLERİN TEORİK NÜKLEER MODELLER İLE İNCELENMESİ, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Fizik, 2012

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Biophysics, Physics, Nuclear physics, Natural Sciences

Academic Titles / Tasks

Research Assistant, Akdeniz University, Faculty of Medicine, Temel Tıp Bilimleri, 2013 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Calculation of double differential neutron cross-sections of ^{56}Fe and ^{90}Zr isotopes**
Özdoğan H., Üncü Y. A., Şekerci M., Kaplan A.
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- V. **An investigation of effects of level density models and gamma ray strength functions on cross-section calculations for the production of Y-90, Sm-153 Er-169, Lu-177 and Re-186 therapeutic radioisotopes via (n,gamma) reactions**
ŞEKERCİ M., Ozdogan H., KAPLAN A.
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- VI. **Theoretical photoneutron cross-section calculations on Osmium isotopes by Talys and Empire codes**
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- VII. **S-Factor Analysis of Proton Capture Reactions on Sn-112, Sn-114, Sn-116, Sn-119 and In-113, In-115 Isotopes**
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- VIII. **Investigation on the Different Production Routes of Ga-67 Radioisotope by Using Different Level Density Models**
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- IX. **A new developed semi-empirical formula for the (α , p) reaction cross-section at 19 +/- 1 MeV**
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DEMİR B., KAPLAN A., ÇAPALI V., Ozdogan H., Sarpun I. H., Aydin A., Tel E.
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- XVI. **Reaction Cross-Section, Stopping Power and Penetrating Distance Calculations for the Structural Fusion Material Fe-54 in Different Reactions**

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- XVII. **(γ , 2n)-Reaction Cross-Section Calculations of Several Even-Even Lanthanide Nuclei Using Different Level Density Models**
KAPLAN A., Sarpun I. H., Aydin A., Tel E., ÇAPALI V., Ozdogan H.
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KAPLAN A., ÇAPALI V., Ozdogan H., Aydin A., Tel E., Sarpun I. H.
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- XXII. **The distribution of juvenile idiopathic arthritis in the eastern Mediterranean: results from the registry of the Turkish Paediatric Rheumatology Association**
DEMIRKAYA E., ÖZEN S., BİLGİNER Y., AKTAY AYAZ N., Makay B. B., Unsal E., ERGUVEN M., Poyrazoglu H., KASAPÇOPUR Ö., GOK F., et al.
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- I. **Mamografi Sistemlerinde İlgili Alanı, Türev ve İnce Gruplama Seçimlerinin Modülasyon Transfer Fonksiyonunun Üzerine Etkileri**
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- II. **Charged Particle Penetration Distance and Mass Stopping Power Calculations on Some Nuclear Reactor Control Rod Materials**
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- III. **$^{181}\text{Ta}(\alpha, xn)$ Reaksiyonu Tesir Kesitlerinin İncelenmesi**
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- V. **Effects of Mean Free Path Parameters for Reaction Cross Section Calculations**
KAPLAN A., ÇAPALI V., ŞEKERCİ M., ÖZDOĞAN H.
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- VI. **LiH Reaktör Moderatör Malzemesi için Hadronik Etkileşimlerin Geant4 Benzetimi**
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SDU Journal of Science, vol.11, no.2, pp.82-88, 2016 (Peer-Reviewed Journal)

VII. Production Cross Section Calculations of Medical ^{177}Lu Using Neutron and Proton Induced Reactions

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Cumhuriyet Science Journal, vol.37, 2016 (Peer-Reviewed Journal)

VIII. Reaction Cross Section Calculations in Neutron Induced Reactions and GEANT4 Simulation of Hadronic Interactions for the Reactor Moderator Material BeO

ÇAPALI V., ŞEKERCİ M., ÖZDOĞAN H., KAPLAN A.

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SÜLEYMAN DEMİREL ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, vol.20, no.2, pp.161-166, 2016 (Peer-Reviewed Journal)

X. Eriyik Tuz Reaktörlerinde Yakıt Malzemesi Olarak Kullanılan Na Çekirdeğinin Üretim Tesir Kesiti Hesaplamaları

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Süleyman Demirel University, Arts and Sciences Faculty, Journal of Science, vol.9, no.2, pp.100-106, 2014 (Peer-Reviewed Journal)

XI. ^{197}Au İçin Reaksiyon Tesir Kesiti Hesaplamaları

ÖZDOĞAN H., KAPLAN A.

Süleyman Demirel University, Arts and Sciences Faculty, Journal of Science, vol.8, no.1, pp.82-91, 2013 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. Production Cross-Section Calculations of ^{62}Cu via Charged Particles Induced Reactions

ŞEKERCİ M., ÖZDOĞAN H.

28TH ANNUAL SYMPOSIUM HELLENIC NUCLEAR PHYSICS SOCIETY, 31 May - 01 June 2019

II. An Investigation on Gamma-Ray Shielding Properties of Zr-Based Bulk Metallic Glasses

ŞEKERCİ M., ÖZDOĞAN H., KAPLAN A.

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III. Mathematical Modeling and Simulations of Cardiac Action Potential

ŞENGÜL S., YARAŞ N., ÖZDOĞAN H., SIRCAN A. K., KURT A.

International Conference on Artificial Intelligence and Applied Mathematics in Engineering 2019, 20 - 22 April 2019

IV. Modeling and analyzing Ca²⁺ channel dynamics during cardiac action potential

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INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELING, 2019, 10 - 13 March 2019

V. Charged Particle Penetration Distance, Material Stopping Power and Mass Attenuation Coefficient Calculations for Nuclear Reactor Control Rod Material Europium

ŞEKERCİ M., ÖZDOĞAN H.

INTERNATIONAL CONGRESS ON THE WORLD OF TECHNOLOGY AND ADVANCED MATERIALS, 21 - 23 September 2018

VI. Double Differential Cross-Section Calculations for $^{27}\text{Al}(d,xn)$

ÖZDOĞAN H., ŞEKERCİ M.

INTERNATIONAL CONGRESS ON THE WORLD OF TECHNOLOGY AND ADVANCED MATERIALS, 21 - 23 September 2018

VII. "(?,n) cross section calculation of several Sn isotopes by using different radiative strength function

models”

SARPÜN İ. H., OZDOĞAN H., BOZKURT A., KAPLAN A.

3rd International Conference on Engineering Technology and Applied Sciences (ICETAS-2018), Skopje, Macedonia, 17 - 21 July 2018, pp.1

- VIII. **(n,p) reaction cross-section calculations of fission reactor control rod materials ^{107}Ag , ^{111}Cd , ^{112}Cd , ^{113}Cd , ^{115}In**
ŞEKERCİ M., ÖZDOĞAN H., KAPLAN A.
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- IX. **Proton and alpha radiation effects on hematite aggregated polymer concretes by using GEANT4**
KAPLAN A. N., Özel C., ŞEKERCİ M., ÖZDOĞAN H.
International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Antalya, Turkey, 20 - 22 April 2018, pp.123
- X. **Deuteron induced reaction cross-section calculations for ^{107}Ag , ^{109}Ag , ^{151}Eu , ^{153}Eu and ^{160}Gd isotopes**
KAPLAN A., ÖZDOĞAN H., ŞEKERCİ M.
International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Antalya, Turkey, 20 - 22 April 2018, pp.126
- XI. **Comparison of stopping power calculations for magnetite and ordinary concrete**
ÖZDOĞAN H., KAPLAN A. N., ŞEKERCİ M., KAPLAN A.
International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Antalya, Turkey, 20 - 22 April 2018, pp.137
- XII. **(n,2n) reaction cross-section calculations of some Cd isotopes**
ŞEKERCİ M., ÖZDOĞAN H., KAPLAN A.
International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Antalya, Turkey, 20 - 22 April 2018, pp.107
- XIII. **“Photo-neutron cross section calculations of ^{84}Sr , ^{86}Sr , ^{87}Sr , ^{88}Sr ”**
SARPÜN İ. H., OZDOĞAN H., SEKERCI M., KAPLAN A.
4th Int. Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT 2018), Antalya, Turkey, 20 - 22 April 2018, pp.1
- XIV. **Neutron production cross-section calculations of ^{111}Cd for (p,xn) reactions**
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International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Antalya, Turkey, 20 - 22 April 2018, pp.124
- XVI. **Photo-neutron cross section calculations of ^{84}Sr , ^{86}Sr , ^{87}Sr , ^{88}Sr**
SARPÜN İ. H., ÖZDOĞAN H., ŞEKERCİ M., KAPLAN A.
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- XVII. **Total cross-section calculations of neutron induced reactions for some control rod materials used in nuclear reactors**
ŞEKERCİ M., CAPALI V., ÖZDOĞAN H., KAPLAN A.
Theoretical and Experimental Studies in Nuclear Applications and Technology, Adana, Turkey, 10 - 12 May 2017, pp.88
- XVIII. **Investigation of neutron and gamma induced reaction effects on TiO_2 and Al_2O_3 coated nickel used at nuclear reactors**
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Theoretical and Experimental Studies in Nuclear Applications and Technology, Adana, Turkey, 10 - 12 May 2017, pp.91

- XIX. **(γ ,abs) cross-section calculations of some fusion structural materials**
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Theoretical and Experimental Studies in Nuclear Applications and Technology, Adana, Turkey, 10 - 12 May 2017, pp.77
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- XXI. **Radiation effects on membrane proteins of voltage gated sodium channels**
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- XXII. **Production Cross Section of Medical ^{177}Lu Using Neutron and Proton Induced Reactions**
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1st International Underground Resources and Energy Conference, 6 - 08 October 2016
- XXIII. **Effects of Mean Free Path Parameters for Reaction Cross Section Calculations**
KAPLAN A., ÇAPALI V., ŞEKERCİ M., ÖZDOĞAN H.
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- XXIV. **Neutron Induced Cross Section Calculations for ^{196}Au ^{198}Au ^{199}Au ^{200}Au Isotopes**
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- XXV. **Neutron Emission Spectra for ^{208}Pb Target Nucleus**
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- XXVI. **Cross Section Computations of ^{238}U ^{242}Pu Nuclei Used as Nuclear Reactor Fuel Recycle Material**
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- XXVIII. **Akciğer Tümörü İçin Foton Ve Proton Işın Tedavilerinin Geant4 Monte Carlo Yöntemiyle Karşılaştırmalı Benzetimi**
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- XXIX. **Nükleer Reaktörlerde Moderatör Malzeme Olarak Kullanılan Doğal Karbon Çekirdeği İçin Tesir Kesiti Hesaplamaları**
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- XXX. **Zırhlama Malzemesi Olarak Kullanılan Ağır Beton Duvarların Radyasyon Geçirgenliği Geant4 Yazılımı İle İncelenmesi**
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- XXXI. **Theoretical Calculations of Medical ^{125}I Radionuclide Using α , d, and γ Induced Reactions**
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- XXXII. **Particle Emission Spectra Produced by Proton Induced Reactions at 90 MeV for ^{209}Bi Target**

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XXXIII. Dosimetric comparison of tools used in the quality assurance of intensity modulated radiation therapy: a phantom study

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XXXIV. Dosimetric Comparison of Tools Used in the Quality Assurance of Intensity Modulated Radiation Therapy A Phantom Study

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XXXV. Fission cross section calculations for Bi-209 target nucleus based on fission reaction models in high energy regions

KAPLAN A., ÇAPALI V., Ozdogan H.

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XXXVI. Sulfur dioxide derivative prevents isoproterenol induced electrophysiological alterations

YARAŞ N., ÖZDEMİR S., DALAMAN U., ÖZDOĞAN H.

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XL. Foton Girişli Reaksiyonlarda Bazı Nd İzotoplarının Tesir Kesiti Hesaplamaları ADIM Fizik Günleri III

ÖZDOĞAN H., ÇAPALI V., Doğan S. S., KAPLAN A.

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XLI. Eriyik Tuz Reaktörlerinde Yakıt Malzemesi Olarak Kullanılan Na Çekirdeğinin Üretim Tesir Kesiti Hesaplamalar

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XLII. 15 MeV lik Siklotronunda Üretilen Bazı Tıbbi Radyoizotopların Nötron Yayınlanma Spektrumlarının İncelenmesi

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XLIII. Cross Section Calculations in Nucleon Induced Reactions for ¹⁹⁷Au ADIM Fizik Günleri II

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XLIV. Pre equilibrium and Equilibrium Emission in Nucleon Induced Reactions for Some Fusion Structural Materials

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XLV. Production Cross Sections of Medical ¹²³I Radioisotope

Ergün Y., KAPLAN A., ÖZDOĞAN H., Altunkök S. Ö.

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XLVI. Siklotronda Üretilen Gama yayıcı ^{57}Co Radyoizotopu İçin Teorik Tesir Kesiti Hesaplamaları

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XLVIII. Alpha Emissions in Nucleon Induced Reactions for ^{27}Al ^{89}Y ^{90}Zr and ^{133}Cs Target Nuclei

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Supported Projects

SARPÜN İ. H., ÖZDOĞAN H., Project Supported by Higher Education Institutions, Te-125 Çekirdeğinden Proton Gelişli Reaksiyonlar ile Radyoaktif I-123,124,125 Çekirdeklerinin Üretim Parametrelerinin Belirlenmesi, 2019 - 2020

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Congress and Symposium Activities

International Workshop on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT 2018), Antalya, Nisan 2018, Attendee, Antalya, Turkey, 2018

International Workshop on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT 2017), Attendee, Adana, Turkey, 2017

Dalga ve Parçacık Tipi Radyasyon Etkileşimlerinde Monte Carlo Uygulamaları Kış Okulu, Attendee, Samsun, Turkey, 2017

International Workshop on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT 2016), Attendee, Turkey, 2016

28th International Physics Congress, Attendee, Muğla/Bodrum, Turkey, 2011