

Prof. Dr. İSMAİL HAKKI SARPÜN



Kişisel Bilgiler

E-posta: sarpun@akdeniz.edu.tr

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

Uluslararası Araştırmacı ID'leri

ScholarID: 1659959808959

ORCID: 0000-0002-9788-699X

Publons / Web Of Science ResearcherID: M-3334-2013

ScopusID: 8839675400

Yoksis Araştırmacı ID: 58827



Eğitim Bilgileri

Doktora, Eskişehir Osmangazi Üniversitesi, Fen Bilimleri, Fizik, Türkiye 1998 - 2014

Yüksek Lisans, Eskişehir Osmangazi Üniversitesi, Fen Bilimleri Ens, Fizik, Türkiye 1994 - 1998

Lisans, Eskişehir Osmangazi Üniversitesi, Fen Edebiyat Fak., Fizik, Türkiye 1989 - 1994

Yabancı Diller

İngilizce, C1 İleri

Araştırma Alanları

Fizik, Nükleer Fizik, Genel Nükleer Tepkimeler, Nükleer yapı, Özel nükleer tepkimeler, Temel Bilimler

Akademik Unvanlar / Görevler

Prof. Dr., Akdeniz Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2019 - Devam Ediyor

Doç. Dr., Akdeniz Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2018 - 2019

Doç. Dr., Afyon Kocatepe Üniversitesi, Fen Edebiyat Fak., Fizik, 2013 - 2018

Akademik İdari Deneyim

Merkez Müdürü, Akdeniz Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2018 - Devam Ediyor

Yönetilen Tezler

Sarpun İ. H., (135,137,138,139)La (n,e) SAÇILMA DİFERANSİYEL TESİR KESİTLERİNİN NÜKLEON YOĞUNLUKLARINDAN ELDE EDİLEN ETKİLEŞİM POTANSİYELLERİ KULLANILARAK HESAPLANMASI, Doktora,

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SARPÜN İ. H., ⁵⁷Co Radyoizotop Üretim Reaksiyonlarının Uyarılma Fonksiyonları, Yüksek Lisans, A.GÜROL(Öğrenci), 2019

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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Simple parametrization of (n,d) cross sections using Flerov and Talyzin's formula**
Tel E., Bülbül A., Yiğit M., SARPÜN İ. H., Kavun Y.
Applied Radiation and Isotopes, cilt.192, 2023 (SCI-Expanded)
- II. **Obtaining a new empirical (n,2n) cross section formula using Flerov and Talyzin non-elastic cross sections at 14–15 MeV**
Tel E., Bülbül A., SARPÜN İ. H., Doğan A.
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- III. **Investigation of level density and Gama strength function for photoneutron reaction in medical linacs in Beamline**

Oflaz U., SARPÜN İ. H., Özdoğan H.

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- IV. **Determinations of fission cross-sections and fission yields from proton induced fission reactions of ^{232}Th , ^{233}U , ^{235}U , ^{236}U , ^{238}U , ^{237}Np and ^{239}Pu**
SARPÜN İ. H., Yalim H. A., Aydın A., Tel E., Akdeniz F., Şahin S.
Modern Physics Letters A, cilt.36, sa.36, 2021 (SCI-Expanded)
- V. **Hybrid Tomo-Helical and Tomo-Direct radiotherapy for localized prostate cancer**
Karaca S., Koca T., Sarpün İ. H., Tunçel N., Korcum Şahin A. F.
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- VI. **Production cross-section calculations of In-111 via proton and alpha-induced nuclear reactions**
Ozdogan H., Sarpün İ. H., Şekerci M., Kaplan A.
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- VII. **Dosimetric evaluation of phantoms including metal objects with high atomic number for use in intensity modulated radiation therapy**
İnal A., SARPÜN İ. H.
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- VIII. **A new study on (n, p) cross sections in nuclear interactions of neutrons with dysprosium**
Yigit M., Tel E., SARPÜN İ. H.
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- IX. **Theoretical photoneutron cross-section calculations on Osmium isotopes by Talys and Empire codes**
SARPÜN İ. H., Ozdogan H., TAŞDÖVEN K., Yalim H. A., KAPLAN A.
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- X. **HE-LHC: The High-Energy Large Hadron Collider Future Circular Collider Conceptual Design Report Volume 4**
Abada A., Abbrescia M., AbdusSalam S. S., Abdyukhanov I., Abelleira Fernandez J., Abramov A., Aburaia M., Acar A. O., Adzic P. R., Agrawal P., et al.
EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, cilt.228, sa.5, ss.1109-1382, 2019 (SCI-Expanded)
- XI. **FCC-hh: The Hadron Collider: Future Circular Collider Conceptual Design Report Volume 3**
Abada A., Abbrescia M., AbdusSalam S. S., Abdyukhanov I., Abelleira Fernandez J., Abramov A., Aburaia M., Acar A. O., Adzic P. R., Agrawal P., et al.
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- XII. **FCC Physics Opportunities: Future Circular Collider Conceptual Design Report Volume 1**
Abada A., Abbrescia M., AbdusSalam S. S., Abdyukhanov I., Fernandez J. A., Abramov A., Aburaia M., Acar A. O., Adzic P. R., Agrawal P., et al.
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- XIII. **FCC-ee: The Lepton Collider: Future Circular Collider Conceptual Design Report Volume 2**
Abada A., Abbrescia M., AbdusSalam S. S., Abdyukhanov I., Fernandez J. A., Abramov A., Aburaia M., Acar A. O., Adzic P. R., Agrawal P., et al.
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- XIV. **Investigation of level density parameter effects on (p,n) and (p,2n) reaction cross-sections for the fusion structural materials Ti-48, Cu-63 and Zr-90**
OZDOGAN H., ŞEKERCİ M., SARPÜN İ. H., KAPLAN A.
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- XV. **The Effect of the Deformation Parameter on the Cross Sections for Reactions: $\text{Pd-110}(d,n)\text{Ag-111}$ and $\text{Pd-110}(d, 2n)(^{110m})\text{Ag}$**
Boyukata M., Sarpun I. H., Aydın A.
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- XVI. **Calculations of Cross-Sections and Astrophysical S-factors for the (alpha,n) Reactions of Some Structural Fusion Materials**
Yildiz E., Aydın A., Sarpun I. H., Tel E.
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- XVII. **Excitation Functions Calculations of the Charged Particle-Induced Nuclear Reactions on the Be-9 Target**
Tel E., Gok A. A., Sahan M., Sarpun I. H., Kavun Y., Aydin A.
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- XVIII. **Double Differential Proton and Alpha Emission Cross Sections for Structural Fusion Materials Mo-94,Mo-95,Mo-96**
Sarpun I. H., Aydin A., KONING A.
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- XIX. **Excitation function calculations for alpha+Nb-93 nuclear reactions**
Yigit M., Tel E., Sarpun I. H.
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- XX. **The Comparison of (n,p), (n,alpha), (n,2n) and (alpha,n) Reaction Cross-Sections for Li-7 and Be-9 Target Nuclei**
Tel E., AKÇA ÖZALP S., Sahan M., Depedelen M., Sarpun I. H.
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- XXI. **Double Differential Charged Particle Emission Cross Sections and Stopping Power Calculations for Structural Fusion Materials Ni-58,Ni-60**
Sarpun I. H., Aydin A., KAPLAN A., DEMİR B., Tel E., ÇAPALI V.
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- XXII. **Comparison of Level Density Models for the Ni-60,Ni-61,Ni-62,Ni-64(p, n) Reactions of Structural Fusion Material Nickel from Threshold to 30 MeV**
Aydin A., Pekdogan H., KAPLAN A., Sarpun I. H., Tel E., DEMİR B.
JOURNAL OF FUSION ENERGY, cilt.34, sa.5, ss.1105-1108, 2015 (SCI-Expanded)
- XXIII. **Double Differential Cross Section and Stopping Power Calculations of Light Charged Particle Emission for the Structural Fusion Materials Cr-50,Cr-52**
DEMİR B., Sarpun I. H., KAPLAN A., ÇAPALI V., Aydin A., Tel E.
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- XXIV. **Calculations of (gamma,n) Reaction Cross Sections using Different Level Density Models for Some Lanthanide Nuclei**
Akcaalan U., Unal R., Sarpun I. H., Yalim H. A., Oruncak B.
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- XXV. **Neutron Production Cross-Section and Geant4 Calculations of the Structural Fusion Material Co-59 for (alpha,xn) and (gamma,xn) Reactions**
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- XXVI. **Production cross-section calculations of medical P-32, Sn-117, Sm-153 and Re-186,Re-188 radionuclides used in bone pain palliation treatment**
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- XXVII. **"Double differential alpha, proton and deuteron emission cross section for the structural fusion materials 46,48Ti",**
SARPÜN İ. H.
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- XXVIII. **(gamma, 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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- XXIX. **(He-3,xn) Reaction Cross-Section Calculations for the Structural Fusion Material Ta-181 in the Energy Range of 14-75 MeV**
KAPLAN A., ÇAPALI V., Ozdogan H., Aydin A., Tel E., Sarpun I. H.

- JOURNAL OF FUSION ENERGY, cilt.33, sa.5, ss.510-515, 2014 (SCI-Expanded)
- XXX. **Comparison of fission barrier and level density models for (α, f) reaction of some heavy nuclei**
Sarpun I. H., Aydin A., KAPLAN A., Koca H., Tel E.
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- XXXI. **Comparison of level density models in (γ, n) reactions of some lanthanide nuclei**
Unal R., Sarpun I. H., Yalim H. A.
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- XXXII. **"Calculations of double differential triton emission cross sections at 62-MeV proton-induced reactions"**
AYDIN A., SARPUN İ. H., KAPLAN A.
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- XXXIII. **Calculations of Double Differential Deuteron Emission Cross Sections at 62 MeV Proton Induced Reactions**
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- XXXIV. **"Influence of mean grain size with ultrasonic velocity on microhardness of B₄C-Fe-Ni composite"**
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- XXXV. **Mean grain size and pore effects on ultrasonic properties of WC-Fe-Ni and SiC-Fe-Ni composites"**
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- XXXVI. **Examining with the Sintered Temperature of Mean Grain Size of B₄C-Al-Ni Composites by Ultrasonic Techniques**
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- XXXVII. **Determination of ($n, 2n$) Reaction Cross Sections for Some Nuclei with Asymmetry Parameter**
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- XXXVIII. **Investigation of Nucleon Mean Free Path Dependence in Tritium Emission Spectra Produced by Proton Induced Reactions at 62 MeV**
Yalim H. A., Aydin A., Sarpun I. H., Unal R., Oruncak B., KAPLAN A., Tel E.
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- XXXIX. **Level density parameter dependence of the fission cross sections of some subactinide nuclei induced by protons with the incident energy up to 250 MeV**
Aydin A., Yalim H. A., Tel E., Sarer B., Unal R., Sarpun I. H., KAPLAN A., Dag M.
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- XL. **The mean grain size determination of boron carbide (B₄C)-aluminium (Al) and boron carbide (B₄C)-nickel (Ni) composites by ultrasonic velocity technique**
UNAL R., SARPUN I., YALIM H., EROL A., OZDEMIR T., TUNCEL S.
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- XLI. **Mean grain size determination in marbles by ultrasonic first backwall echo height measurements**
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- XLII. **Mean grain size determination in marbles by ultrasonic velocity techniques**
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Diğer Dergilerde Yayınlanan Makaleler

1. **An in silico investigation of allosteric inhibition potential of Dihydroergotamine against Sars- CoV-2**

Main Protease (MPro)

Yaşar M. M., Yaşar E., Yorulmaz N., Tenekeci M. E., Sarpün İ. H., Eroğlu E.

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- II. **CT Taramalarında Hastanın Boyuna Göre Absorbe Edilen Dozun Değişimi**
SARPÜN İ. H., KOCA T., ATAK E., ŞENGÜN Y., AKSOY R. A., KIZILKAYA M., KORCUM ŞAHİN A. F.
Afyon Kocatepe Üniversitesi Uluslararası Mühendislik Teknolojileri ve Uygulamalı Bilimler Dergisi, cilt.5, 2022 (Hakemli Dergi)
- III. **Elekta Synergy Platform Lineer Hızlandırıcı Cihazında On yıllık periyod için Foton Yüzde Derin Doz ve Işın Profil Parametrelerinin Değerlendirilmesi**
İNAL A., SARPÜN İ. H.
Akdeniz Tıp Dergisi, 2022 (Hakemli Dergi)
- IV. **$^{112}\text{Sn}(\alpha, g)$ ^{116}Te Reaksiyonu için Astrofiziksel S-Faktörlerinin ve Reaksiyon Hızlarının Hesaplanması**
YILDIZ E., AYDIN A., SARPÜN İ. H.
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- V. **Change in Body Dose of I-131 Radioisotope in Boys by Age**
Koca T., Sarpün İ. H., Yıldırım Ü., Türk Çakır İ., Şahin S.
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- VI. **Effect of I-131 Radioisotope Activities on Organ Dose Used in Nuclear Medicine**
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- VII. **Determination of Antibacterial Properties of Some Sulfonamide Compounds by Molecular Docking**
ÖZTÜRK H., YORULMAZ N., DURGUN M., TURHAN Z. Ş., SARPÜN İ. H.
SÜLEYMAN DEMİREL ÜNİVERSİTESİ FEN EDEBİYAT FAKÜLTESİ FEN DERGİSİ = SÜLEYMAN DEMİREL UNIVERSITY FACULTY OF ARTS AND SCIENCE JOURNAL OF SCIENCE, cilt.16, sa.2, ss.458-467, 2021 (Hakemli Dergi)
- VIII. **Nucleon Densities of Copper Isotopes Calculated by Skyrme and Gogny Models**
SARPÜN İ. H., AKDENİZ F., TEL E., AYDIN A.
SÜLEYMAN DEMİREL ÜNİVERSİTESİ FEN EDEBİYAT FAKÜLTESİ FEN DERGİSİ = SÜLEYMAN DEMİREL UNIVERSITY FACULTY OF ARTS AND SCIENCE JOURNAL OF SCIENCE, cilt.16, sa.1, 2021 (Hakemli Dergi)
- IX. **Variation of the Absorbed Dose by the Weight of the Patient in CT Scanning**
SARPÜN İ. H., ÖZSOY C., AYDIN V., KOCA T.
Afyon Kocatepe Üniversitesi Uluslararası Mühendislik Teknolojileri ve Uygulamalı Bilimler Dergisi, cilt.4, 2021 (Hakemli Dergi)
- X. **^{131}Cs Radyoizotopunun Üretildiği Bazı Nükleer Reaksiyonların Uyarılma Fonksiyonları**
ZENGİN S., ÖZKAN BİLİCİ V., SARPÜN İ. H.
Süleyman Demirel Üniversitesi Fen Edebiyat Fakültesi Fen Dergisi, cilt.15, sa.2, ss.287-294, 2020 (Hakemli Dergi)
- XI. **^{57}Co RADYOİZOTOPU ÜRETİMİ İÇİN BAZI ALFA GİRİŞLİ REAKSİYONLARIN UYARILMA FONKSİYONLARININ İNCELENMESİ**
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- XII. **CALCULATION OF CROSS SECTIONS AND ASTROPHYSICAL S-FACTORS AT 0-5 MeV ENERGY RANGE FOR $^8\text{Li}(\alpha, n)^{11}\text{B}$ REACTION**
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