

## 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., Yüksek Enerjili Elektron Işımlarında Dış İmplantlarının Doz Dağılımına Etkisinin Monte Carlo Yöntemi ile İncelenmesi, Yüksek Lisans, M.ÖZKAN(Öğrenci), 2019

SARPÜN İ. H., CT Çekimlerinde Doku Kalınlığı ve Cihaz Parametrelerinin Doza Etkisinin İncelenmesi, Yüksek Lisans, B.ÇEÇEN(Öğrenci), 2019

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SARPÜN İ. H., Metal Yüzeylerde Atom-Atom Çarpışmaları Simülasyonu, Yüksek Lisans, M.ÇETİN(Öğrenci), 2009

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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  $^{232}\text{Th}$ ,  $^{233}\text{U}$ ,  $^{235}\text{U}$ ,  $^{236}\text{U}$ ,  $^{238}\text{U}$ ,  $^{237}\text{Np}$  and  $^{239}\text{Pu}$**   
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- V. **Hybrid Tomo-Helical and Tomo-Direct radiotherapy for localized prostate cancer**  
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- VI. **Production cross-section calculations of In-111 via proton and alpha-induced nuclear reactions**  
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- VII. **Dosimetric evaluation of phantoms including metal objects with high atomic number for use in intensity modulated radiation therapy**  
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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.  
INDIAN JOURNAL OF PHYSICS, cilt.93, sa.12, ss.1611-1618, 2019 (SCI-Expanded)
- 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.  
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- XI. **FCC-hh: The Hadron Collider: Future Circular Collider Conceptual Design Report Volume 3**  
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- XII. **FCC Physics Opportunities: Future Circular Collider Conceptual Design Report Volume 1**  
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- XIII. **FCC-ee: The Lepton Collider: Future Circular Collider Conceptual Design Report Volume 2**  
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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  $\text{Pd-110}(d, 2n)(^{110m})\text{Ag}$**   
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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**  
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- XIX. **Excitation function calculations for alpha+Nb-93 nuclear reactions**  
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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.  
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- XXIII. **Double Differential Cross Section and Stopping Power Calculations of Light Charged Particle Emission for the Structural Fusion Materials Cr-50,Cr-52**  
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- XXIV. **Calculations of (gamma,n) Reaction Cross Sections using Different Level Density Models for Some Lanthanide Nuclei**  
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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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KERNTECHNIK, cilt.80, sa.1, ss.58-65, 2015 (SCI-Expanded)
- XXVII. **"Double differential alpha, proton and deuteron emission cross section for the structural fusion materials 46,48Ti",**  
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- XXVIII. **(gamma, 2n)-Reaction Cross-Section Calculations of Several Even-Even Lanthanide Nuclei Using Different Level Density Models**  
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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 ( $\alpha, f$ ) reaction of some heavy nuclei**  
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- XXXI. **Comparison of level density models in ( $\gamma, n$ ) reactions of some lanthanide nuclei**  
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- XXXII. **"Calculations of double differential triton 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 B<sub>4</sub>C-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"**  
SARPUN İ. H., OZKAN V., YONETKEN A., EROL A.  
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- XXXVI. **Examining with the Sintered Temperature of Mean Grain Size of B<sub>4</sub>C-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**  
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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**  
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- XL. **The mean grain size determination of boron carbide (B<sub>4</sub>C)-aluminium (Al) and boron carbide (B<sub>4</sub>C)-nickel (Ni) composites by ultrasonic velocity technique**  
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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.

Turkish Computational and Theoretical Chemistry, cilt.7, sa.1, ss.14-36, 2023 (Hakemli Dergi)

- 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.  **$^{112}\text{Sn}(\alpha, g)$   $^{116}\text{Te}$  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**  
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- VI. **Effect of I-131 Radioisotope Activities on Organ Dose Used in Nuclear Medicine**  
KOCA T., SARPÜN İ. H., ÖZSOY C., AYDIN V., ŞAHİN S.  
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- VII. **Determination of Antibacterial Properties of Some Sulfonamide Compounds by Molecular Docking**  
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- VIII. **Nucleon Densities of Copper Isotopes Calculated by Skyrme and Gogny Models**  
SARPÜN İ. H., AKDENİZ F., TEL E., AYDIN A.  
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- IX. **Variation of the Absorbed Dose by the Weight of the Patient in CT Scanning**  
SARPÜN İ. H., ÖZSOY C., AYDIN V., KOCA T.  
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- X.  **$^{131}\text{Cs}$  Radyoizotopunun Üretildiği Bazı Nükleer Reaksiyonların Uyarılma Fonksiyonları**  
ZENGİN S., ÖZKAN BİLİCİ V., SARPÜN İ. H.  
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## Metrikler

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