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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 Edebiyet Fak., Fizik, 2013 - 2018

Akademik İdari Deneyim

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

Yönetilen Tezler

Sarpün 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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SARPÜN İ. H., Volkanik Kayaçların Elastik Özelliklerinin Ultrases Yöntemiyle Belirlenmesi, Yüksek Lisans, S.Burak(Öğrenci), 2010

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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

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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}Th , ^{235}U , ^{236}U , ^{238}U , ^{237}Np and ^{239}Pu
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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.
MODERN PHYSICS LETTERS A, cilt.36, sa.8, 2021 (SCI-Expanded)
- 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
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MODERN PHYSICS LETTERS A, cilt.34, sa.26, 2019 (SCI-Expanded)
- 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
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.
EUROPEAN PHYSICAL JOURNAL C, cilt.79, sa.6, 2019 (SCI-Expanded)
- 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: Pd-110(d,n)Ag-111 and $\text{Pd-110(d, 2n)(110m) Ag}$
Boyukata M., Sarpun İ. H., Aydin 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., Aydin A., Sarpun İ. 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.
JOURNAL OF FUSION ENERGY, cilt.35, sa.5, ss.725-729, 2016 (SCI-Expanded)
- 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.
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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**
 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**
 DEMİR B., KAPLAN A., ÇAPALI V., Ozdogan H., Sarpun I. H., Aydin A., Tel E.
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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**
 DEMİR B., KAPLAN A., ÇAPALI V., Sarpun I. H., Aydin A., Tel E.
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- 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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PHYSICS OF ATOMIC NUCLEI, cilt.78, sa.1, ss.53-64, 2015 (SCI-Expanded)
- 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.
ANNALS OF NUCLEAR ENERGY, cilt.70, ss.175-179, 2014 (SCI-Expanded)
- XXXI. **Comparison of level density models in (γ,n) reactions of some lanthanide nuclei**
Unal R., Sarpun I. H., Yalim H. A.
PHYSICS OF ATOMIC NUCLEI, cilt.77, sa.3, ss.310-315, 2014 (SCI-Expanded)
- XXXII. **"Calculations of double differential triton emission cross sections at 62-MeV proton-induced reactions"**
AYDIN A., SARPÜN İ. H., KAPLAN A.
PHYSICS OF ATOMIC NUCLEI, cilt.77, ss.321-324, 2014 (SCI-Expanded)
- 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**
Ozkan V., Sarpun I. H.
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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**
Sarpun I., KILICKAYA M.
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- XLII. **Mean grain size determination in marbles by ultrasonic velocity techniques**
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Diğer Dergilerde Yayınlanan Makaleler

- I. **Evaluation of the Dosimetric Effects of Bladder and Rectum Filling in Patients with Gynecologic**

Cancer Receiving Adjuvant Radiotherapy

KOCA T., AKSOY R. A., ATAK E., KIZILKAYA M., BİLEK Y., TUNÇEL N., SARPÜN İ. H., KORCUM ŞAHİN A. F.

TÜRK ONKOLOJİ DERGİSİ, cilt.40, sa.1, ss.11-19, 2025 (ESCI)

- II. **An in silico investigation of allosteric inhibition potential of Dihydroergotamine against Sars-CoV-2 Main Protease (MPro)**

YAŞAR M. M., YAŞAR E., YORULMAZ N., TENEKECİ M. E., SARPÜN İ. H., EROĞLU E.

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- III. **CT Taramalarında Hastanın Boyuna Göre Absorbe Edilen Dozun Değişimi**

Sarpün İ. H., Koca T., Atak E., Şengün Y., Aksoy R. A., Kızılkaya M., Korcum Şahin A. F.

Afyon Kocatepe Üniversitesi Uluslararası Mühendislik Teknolojileri ve Uygulamalı Bilimler Dergisi, cilt.5, 2022 (Hakemli Dergi)

- IV. **Elekta Synergy Platform Lineer Hızlandırıcı Cihazında On yıllık periyod için Foton Yüzde Derin Doz ve İşin Profil Parametrelerinin Değerlendirilmesi**

İNAL A., SARPÜN İ. H.

Akdeniz Tıp Dergisi, 2022 (Hakemli Dergi)

- V. **$^{112}\text{Sn}(\alpha, \text{g})$ ^{116}Te Reaksiyonu için Astrofiziksel S-Faktörlerinin ve Reaksiyon Hızlarının Hesaplanması**

YILDIZ E., AYDIN A., SARPÜN İ. H.

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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., Şahin S.

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- VII. **Change in Body Dose of I-131 Radioisotope in Boys by Age**

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- VIII. **Determination of Antibacterial Properties of Some Sulfonamide Compounds by Molecular Docking**

ÖZTÜRK H., YORULMAZ N., DURGUN M., TURHAN Z. Ş., SARPÜN İ. H.

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UNIVERSITY FACULTY OF ARTS AND SCIENCE JOURNAL OF SCIENCE, cilt.16, sa.2, ss.458-467, 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 Fen ve Mühendislik Bilimleri Dergisi, cilt.4, 2021 (Hakemli Dergi)

- X. **Nucleon Densities of Copper Isotopes Calculated by Skyrme and Gogny Models**

SARPÜN İ. H., AKDENİZ F., TEL E., AYDIN A.

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- XI. **^{131}Cs Radyoizotopunun Üretildiği Bazı Nükleer Reaksiyonların Uyarılma Fonksiyonları**

ZENGİN S., ÖZKAN BİLİMİ V., SARPÜN İ. H.

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- XII. **A Different Approach to Intensity Modulated Radiation Therapy Patient QA Measurements about Dosimetric Equipment**

Inal A., SARPÜN İ. H., ÜNAL R.

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