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Education Information

Doctorate, Eskişehir Osmangazi University, Fen Bilimleri, Fizik, Turkey 1998 - 2014

Postgraduate, Eskişehir Osmangazi University, Fen Bilimleri Ens, Fizik, Turkey 1994 - 1998

Undergraduate, Eskişehir Osmangazi University, Fen Edebiyat Fak., Fizik, Turkey 1989 - 1994

Foreign Languages

English, C1 Advanced

Research Areas

Physics, Nuclear physics, General Nuclear Reactions, Nuclear Structure, Special nuclear reactions, Natural Sciences

Academic Titles / Tasks

Professor, Akdeniz University, Faculty of Science, Department of Physics, 2019 - Continues

Associate Professor, Akdeniz University, Faculty of Science, Department of Physics, 2018 - 2019

Associate Professor, Afyon Kocatepe University, Fen Edebiyat Fak., Fizik, 2013 - 2018

Academic and Administrative Experience

Director of the Center, Akdeniz University, Faculty of Science, Department of Physics, 2018 - Continues

Advising Theses

Sarpün İ. H., (135,137,138,139)La (n,e) SAÇILMA DİFERANSİYEL TESİR KESİTLERİNİN NÜKLEON

YOĞUNLUKLARINDAN ELDE EDİLEN ETKİLEŞİM POTANSİYELLERİ KULLANILARAK HESAPLANMASI, Doctorate, F.AKDENİZ(Student), 2024

Sarpün İ. H., Radyasyon uygulamalarında güvenlik kültürü farkındalığının incelenmesi ile ilgili alan araştırması, Postgraduate, F.BULGURLU(Student), 2023

Sarpün İ. H., Hipertiroid tedavisinde kullanılan I-131 radyoizotopunun aktivitesine göre komşu organların aldığı dozun monte carlo yöntemi ile belirlenmesi, Postgraduate, V.AYDIN(Student), 2023

Sarpün İ. H., Abdomen CT çekimlerinde bazı kritik organların aldığı dozun monte carlo yöntemi ile belirlenmesi, Postgraduate, C.ÖZSOY(Student), 2023

Sarpün İ. H., Medikal lineer hızlandırıcı ışın yolunda fotonötron tesir kesitlerinin incelenmesi, Doctorate, U.OFLAZ(Student), 2022

Sarpün İ. H., Eroğlu E., MOLEKÜLER MODELLEME YÖNTEMLERİ KULLANILARAK BAZI ENZİM VE PROTEİNLERİN ALOSTERİK ETKİ İLE İNHİBİSYON VE AKTİVASYONLARININ ARAŞTIRILMASI, Doctorate, M.MURAT(Student), 2022

SARPÜN İ. H., Yüksek Enerjili Elektron Işımlarında Dış İmplantlarının Doz Dağılımına Etkisinin Monte Carlo Yöntemi ile İncelenmesi, Postgraduate, M.ÖZKAN(Student), 2019

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

SARPÜN İ. H., ⁵⁷Co Radyoizotop Üretim Reaksiyonlarının Uyarılma Fonksiyonları, Postgraduate, A.GÜROL(Student), 2019

SARPÜN İ. H., BAZI ELEMENTLERİN (³ He, p) REAKSİYONU İLE UYARILMA FONKSİYONLARININ HESAPLANMASI, Postgraduate, H.Bilgin(Student), 2018

SARPÜN İ. H., Fisyon Reaksiyonlarında Tesir Kesitlerinin Hesaplanması, Postgraduate, H.KOCA(Student), 2012

SARPÜN İ. H., Malzemelerin Termal ve Elastik Özellikleri Arasındaki İlişki, Postgraduate, H.BODUR(Student), 2012

SARPÜN İ. H., Bazı Kompozitlerde Elastik ve Termal İletim Özellikleri Arasındaki İlişkinin Deneysel Olarak Belirlenmesi, Doctorate, V.ÖZKAN(Student), 2012

SARPÜN İ. H., Alkali ve Toprak Alkali Bazı Elementlerin Fotonötron Reaksiyonları (g,n), ((g,n)+(g,n+p)) ve (g, abs) Tesir Kesitlerinin Teorik Hesaplanması, Postgraduate, Ş.KİREMİTÇİOĞLU(Student), 2011

SARPÜN İ. H., Volkanik Kayaçların Elastik Özelliklerinin Ultrases Yöntemiyle Belirlenmesi, Postgraduate, S.Burak(Student), 2010

SARPÜN İ. H., Metal Yüzeylerde Atom-Atom Çarpışmaları Simülasyonu, Postgraduate, M.ÇETİN(Student), 2009

SARPÜN İ. H., Bazı Mermerlerin Ortalama Tanecik Boyutlarının Ultrasonik Metotlarla Belirlenmesi, Postgraduate, H.TOPRAK(Student), 2009

SARPÜN İ. H., ¹⁶⁵Ho İzotopunun 1-100 MeV Enerjili Parçacıklarla Reaksiyon Tesir Kesitlerinin Teorik Hesaplanması, Postgraduate, E.ÖZDEMİR(Student), 2009

SARPÜN İ. H., Tungsten Karbür Esaslı Seramik Metal Kompozitlerin Ultrases Dalda Hız Metodu ile Ortalama Tanecik Boyutlarının Tayini, Postgraduate, Ö.SEVİM(Student), 2008

SARPÜN İ. H., Bazı Karbürü Metal-Matriks Seramiklerin Tanecik Boyutlarının Sinterleme Sıcaklığıyla Değişiminin Ultrases ile İncelenmesi, Postgraduate, V.ÖZKAN(Student), 2008

SARPÜN İ. H., Tungsten Karbürü Metal Matriks Kompozit Seramiklerinin Elastik Sabitelerinin Belirlenmesi, Postgraduate, S.ELMAS(Student), 2008

Published journal articles indexed by SCI, SSCI, and AHCI

- 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, vol.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.
Applied Radiation and Isotopes, vol.191, 2023 (SCI-Expanded)
- III. **Investigation of level density and Gama strength function for photoneutron reaction in medical**

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Oflaz U., SARPÜN İ. H., Özdoğan H.

Applied Radiation and Isotopes, vol.186, 2022 (SCI-Expanded)

- 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., Aydin A., Tel E., Akdeniz F., Şahin S.
Modern Physics Letters A, vol.36, no.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.
JOURNAL OF APPLIED CLINICAL MEDICAL PHYSICS, vol.22, no.10, pp.136-143, 2021 (SCI-Expanded)
- 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, vol.36, no.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.
RADIATION AND ENVIRONMENTAL BIOPHYSICS, vol.59, no.3, pp.503-510, 2020 (SCI-Expanded)
- 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, vol.93, no.12, pp.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.
MODERN PHYSICS LETTERS A, vol.34, no.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.
EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, vol.228, no.5, pp.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.
EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, vol.228, no.4, pp.755-1107, 2019 (SCI-Expanded)
- 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, vol.79, no.6, 2019 (SCI-Expanded)
- 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.
EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, vol.228, no.2, pp.261-623, 2019 (SCI-Expanded)
- 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.
APPLIED RADIATION AND ISOTOPES, vol.140, pp.29-34, 2018 (SCI-Expanded)
- 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., Aydin A.
PHYSICS OF ATOMIC NUCLEI, vol.81, no.1, pp.38-42, 2018 (SCI-Expanded)
- XVI. **Calculations of Cross-Sections and Astrophysical S-factors for the (alpha,n) Reactions of Some Structural Fusion Materials**
Yildiz E., Aydin A., Sarpun I. H., Tel E.

- JOURNAL OF FUSION ENERGY, vol.36, no.4-5, pp.149-151, 2017 (SCI-Expanded)
- 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.
JOURNAL OF FUSION ENERGY, vol.36, no.4-5, pp.173-177, 2017 (SCI-Expanded)
- 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, vol.35, no.5, pp.725-729, 2016 (SCI-Expanded)
- XIX. **Excitation function calculations for alpha+Nb-93 nuclear reactions**
Yigit M., Tel E., Sarpun I. H.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.385, pp.59-64, 2016 (SCI-Expanded)
- 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.
JOURNAL OF FUSION ENERGY, vol.35, no.4, pp.709-714, 2016 (SCI-Expanded)
- 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.
JOURNAL OF FUSION ENERGY, vol.34, no.6, pp.1306-1313, 2015 (SCI-Expanded)
- 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, vol.34, no.5, pp.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.
JOURNAL OF FUSION ENERGY, vol.34, no.4, pp.808-816, 2015 (SCI-Expanded)
- 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.
ACTA PHYSICA POLONICA A, vol.128, no.2B, 2015 (SCI-Expanded)
- 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.
JOURNAL OF FUSION ENERGY, vol.34, no.3, pp.636-641, 2015 (SCI-Expanded)
- 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.
KERNTECHNIK, vol.80, no.1, pp.58-65, 2015 (SCI-Expanded)
- XXVII. **"Double differential alpha, proton and deuteron emission cross section for the structural fusion materials 46,48Ti",**
SARPUN İ. H.
JOURNAL OF FUSION ENERGY, vol.34, no.3, pp.592-597, 2015 (SCI-Expanded)
- 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.
PHYSICS OF ATOMIC NUCLEI, vol.78, no.1, pp.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, vol.33, no.5, pp.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, vol.70, pp.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, vol.77, no.3, pp.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, vol.77, pp.321-324, 2014 (SCI-Expanded)
- XXXIII. **Calculations of Double Differential Deuteron Emission Cross Sections at 62 MeV Proton Induced Reactions**
 Aydin A., Sarpun I. H., KAPLAN A., Tel E.
 JOURNAL OF FUSION ENERGY, vol.32, no.3, pp.378-381, 2013 (SCI-Expanded)
- XXXIV. **"Influence of mean grain size with ultrasonic velocity on microhardness of B₄C-Fe-Ni composite"**
 OZKAN V., SARPÜN İ. H., EROL A., YONETKEN A.
 JOURNAL OF ALLOYS AND COMPOUNDS, vol.574, pp.512-519, 2013 (SCI-Expanded)
- XXXV. **Mean grain size and pore effects on ultrasonic properties of WC-Fe-Ni and SiC-Fe-Ni composites"**
 SARPÜN İ. H., OZKAN V., YONETKEN A., EROL A.
 ACTA PHYSICA POLONICA A, vol.123, pp.688-694, 2012 (SCI-Expanded)
- XXXVI. **Examining with the Sintered Temperature of Mean Grain Size of B₄C-Al-Ni Composites by Ultrasonic Techniques**
 Ozkan V., Sarpun I. H.
 ACTA PHYSICA POLONICA A, vol.121, no.1, pp.184-186, 2012 (SCI-Expanded)
- XXXVII. **Determination of ($n, 2n$) Reaction Cross Sections for Some Nuclei with Asymmetry Parameter**
 Sarpun I. H., Yalim H. A., Unal R., Oruncak B., Aydin A., KAPLAN A., Tel E.
 JOURNAL OF FUSION ENERGY, vol.29, no.4, pp.387-394, 2010 (SCI-Expanded)
- 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.
 JOURNAL OF FUSION ENERGY, vol.29, no.1, pp.55-61, 2010 (SCI-Expanded)
- 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.
 ANNALS OF NUCLEAR ENERGY, vol.36, no.9, pp.1307-1312, 2009 (SCI-Expanded)
- 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.
 MATERIALS CHARACTERIZATION, vol.56, no.3, pp.241-244, 2006 (SCI-Expanded)
- XLI. **Mean grain size determination in marbles by ultrasonic first backwall echo height measurements**
 Sarpun I., KILICKAYA M.
 NDT & E INTERNATIONAL, vol.39, no.1, pp.82-86, 2006 (SCI-Expanded)
- XLII. **Mean grain size determination in marbles by ultrasonic velocity techniques**
 Sarpun I., KILICKAYA M., TUNCEL S.
 NDT & E INTERNATIONAL, vol.38, no.1, pp.21-25, 2005 (SCI-Expanded)

Articles Published in Other Journals

- I. **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, vol.7, no.1, pp.14-36, 2023 (Peer-Reviewed Journal)
- 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, vol.5, 2022 (Peer-Reviewed Journal)
- III. **Elekta Synergy Platform Linear Hızlandırıcı Cihazında On yıllık periyod için Foton Yüzde Derin Doz ve Işın Profil Parametrelerinin Değerlendirilmesi**
İNAL A., SARPÜN İ. H.
Akdeniz Tıp Dergisi, 2022 (Peer-Reviewed Journal)
- IV. **$^{112}\text{Sn}(\alpha, g)$ ^{116}Te Reaksiyonu için Astrofiziksel S-Faktörlerinin ve Reaksiyon Hızlarının Hesaplanması**
YILDIZ E., AYDIN A., SARPÜN İ. H.
Afyon Kocatepe Üniversitesi Uluslararası Mühendislik Teknolojileri ve Uygulamalı Bilimler Dergisi, vol.4, no.2, pp.74-77, 2021 (Peer-Reviewed Journal)
- 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.
Afyon Kocatepe Üniversitesi Uluslararası Mühendislik Teknolojileri ve Uygulamalı Bilimler Dergisi, vol.4, no.2, pp.78-82, 2021 (Peer-Reviewed Journal)
- 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.
Afyon Kocatepe Üniversitesi Uluslararası Mühendislik Teknolojileri ve Uygulamalı Bilimler Dergisi, vol.4, no.2, pp.87-92, 2021 (Peer-Reviewed Journal)
- 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, vol.16, no.2, pp.458-467, 2021 (Peer-Reviewed Journal)
- 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, vol.16, no.1, 2021 (Peer-Reviewed Journal)
- 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, vol.4, 2021 (Peer-Reviewed Journal)
- 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, vol.15, no.2, pp.287-294, 2020 (Peer-Reviewed Journal)
- XI. **^{57}Co RADYOİZOTOPU ÜRETİMİ İÇİN BAZI ALFA GİRİŞLİ REAKSİYONLARIN UYARILMA FONKSİYONLARININ İNCELENMESİ**
Gürol A., SARPÜN İ. H., YALIM H. A.
Eskişehir Teknik Üniversitesi Bilim ve Teknoloji Dergisi B - Teorik Bilimler, vol.8, no.1, pp.88-98, 2020 (Peer-Reviewed Journal)
- 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**
YILDIZ E., SARPÜN İ. H.
Eskişehir Technical University Journal of Science and Technology A - Applied Sciences and Engineering, vol.21,

no.1, pp.205-209, 2020 (Peer-Reviewed Journal)

- XIII. **A Different Approach to Intensity Modulated Radiation Therapy Patient QA Measurements about Dosimetric Equipment**
Inal A., SARPÜN İ. H., ÜNAL R.
TURK ONKOLOJİ DERGİSİ-TURKISH JOURNAL OF ONCOLOGY, vol.35, no.3, pp.298-305, 2020 (ESCI)
- XIV. **5. Uluslararası nükleer teknoloji ve uygulamalarda teorik ve deneysel çalışmalar kongresi (02-04 Mayıs 2019)**
TEL E., AYDIN A., SARPÜN İ. H.
Osmaniye Korkut Ata Üniversitesi Fen Edebiyat Fakültesi Dergisi, vol.1, no.1, pp.103-104, 2019 (Peer-Reviewed Journal)
- XV. **Voltaj ve akım değerlerinin hasta dozu üzerindeki etkilerinin CTDI fantomu ile araştırılması**
Sarpün İ. H., İnal A., Çeçen B.
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CIII. Theoretical investigation of cross-sections and astrophysical s-factors for the $^{92}\text{Mo}(?,n)^{95}\text{Ru}$ and $^{94}\text{Mo}(?,n)^{97}\text{Ru}$ reactions

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TEL E., SAHAN M., SARPÜN İ. H., OKUR S. G.

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- CXIV. Investigation of the fusion reaction using basic nucleon-nucleon interaction potential**
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- CXV. Evaluation of dose distributions calculated by the cyberknife monte carlo and ray tracing algorithms for head and neck tumors: a phantom study**
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- CXVI. Investigation of the effects of nuclear level density parameters on the cross sections of the ²³⁴U(γ ,f) reaction**
PEKDOĞAN H., AYDIN A., SARPÜN İ. H.
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- CXVII. Comparison of Dose Distributions Calculated by the Cyberknife Monte Carlo and Ray Tracing**

Algorithms for Lung Tumors: A Phantom Study

KOKSAL C., AKBAS U., OKUTAN M., DEMİR B., CAPALI V., KAPLAN A., SARPÜN İ. H., AYDIN A.

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CXVIII. A systematic quality assurance study in bone densitometry devices

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CXIX. Calculation of the (n,2n) and (n,p) reaction cross section of germanium target isotopes at 14-15 MeV incident energy

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CXX. Theoretical Calculations of Medical 125I Radionuclide Using α , d and g Induced Reactions

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CXXII. Theoretical Calculations of Medical 125I Radionuclide Using α , d, and γ Induced Reactions

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CXXIV. A study on nuclear properties of Zr, Nb and Ta nuclei used as structural material in fusion reactors

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CXXVI. ^{57}Co radyoizotopunun (α, γ) reaksiyonu ile üretilmesinin teorik hesaplaması

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CXXVII. Nükleer seviye yoğunluk parametresinin reaksiyon tesir kesitlerine etkisinin incelenmesi

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CXXIX. (α, n) reaction cross sections of some lanthanide nuclei at different level density models

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- CXXXI. **57Co radyoizotopunun (p,*), (n,x), (d,x) reaksiyonu ile üretilmesinin teorik hesaplaması**
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- CXXXIII. **Investigations of (n,g) reaction cross sections of some 3A group elements**
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- CXXXIV. **The relations between poisson's ratio with the shear modulus, the bulk modulus and young's modulus for composite materials**
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- CXXXIX. **Computational methods in nuclear physics**
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