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Education Information

Doctorate, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey Continues

Post Graduate, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Fizik (YI), Turkey Continues

Under Graduate, Suleyman Demirel University, Fen-Edebiyat Fakültesi, Fizik, Turkey Continues

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Ni, Bi ve Pu Fiyon Reaktörleri Yapısal Elementlerinin Tesir Kesitlerinin Teorik Olarak İncelenmesi, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Fizik, 2015

Post Graduate, Yüksek Enerji Fiziği Parçacık Detektörlerinde Silikon Şerit Detektörün GEANT4 Simülasyonu ve ROOT Nesneye Yönelik Veri Analiz Yapısı, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Fizik, 2011

Research Areas

Physics, Nuclear physics, General Nuclear Reactions, Nuclear Structure, Nuclear Engineering and Nuclear Energy Studies, Experimental Methods of Particle and Nuclear Physics, Natural Sciences

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Photon Induced Reaction Cross-Section Calculations of Several Structural Fusion Materials**
KAPLAN A., ŞEKERCİ M., ÇAPALI V., Ozdogan H.
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- **weeqweqwwqq**
ÇAPALI V.
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- **Computations of (alpha,xn) Reaction Cross-Section for Ag-107,Ag-109 Coated Materials with Possible Application in Accelerators and Nuclear Systems**
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JOURNAL OF FUSION ENERGY, vol.35, pp.715-723, 2016 (Journal Indexed in SCI)
- **Double Differential Charged Particle Emission Cross Sections and Stopping Power Calculations for Structural Fusion Materials Ni-58,Ni-60**
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- **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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- **Reaction Cross-Section, Stopping Power and Penetrating Distance Calculations for the Structural Fusion Material Fe-54 in Different Reactions**

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JOURNAL OF FUSION ENERGY, vol.34, pp.379-385, 2015 (Journal Indexed in SCI)

- **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, vol.80, pp.58-65, 2015 (Journal Indexed in SCI)

- **(γ , 2n)-Reaction Cross-Section Calculations of Several Even-Even Lanthanide Nuclei Using Different Level Density Models**

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PHYSICS OF ATOMIC NUCLEI, vol.78, pp.53-64, 2015 (Journal Indexed in SCI)

- **(He-3,xn) Reaction Cross-Section Calculations for the Structural Fusion Material Ta-181 in the Energy Range of 14-75 MeV**

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- **Cross-Section Calculations on Several Structural Fusion Materials for (γ ,3n) Reactions in the Photon Energy Range of 20-110 MeV**

KAPLAN A., ÇAPALI V.

JOURNAL OF FUSION ENERGY, vol.33, pp.299-303, 2014 (Journal Indexed in SCI)

Articles Published in Other Journals

- **Hızlı nötron reaktörlerinde yakıt malzemesi olarak kullanılan 235,238U ve 239Pu izotoplarına yönelik tesir kesiti hesaplamaları için nükleer seviye yoğunluğu parametresinin incelenmesi**

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- **Cross-Section Calculations of (g,xn) and (p,xn) Reactions for 197Au**

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- **Production Cross–Section Calculations of Medical 177Lu Using Neutron and Proton Induced Reactions**

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

ÇAPALIV., ŞEKERCİ M., ÖZDOĞAN H., KAPLAN A.

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- **roduction Cross–Section Calculations of Medical 125I Radionuclide Using a, d and g Induced Reactions**

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- **Gama Kameraların Kalite Kontrol Testleri**

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- **27Al, 54Fe, 58Ni ve 90Zr Hedef Çekirdekleri İçin 10–30 MeV Enerji Aralığında (g,p) Reaksiyon Tesir Kesiti Hesaplamaları**

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- **Eriyik Tuz Reaktörlerinde Yakıt Malzemesi Olarak Kullanılan Na Çekirdeğinin Üretim Tesir Kesiti Hesaplamaları**

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Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.10, pp.323-327, 2006 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

- **Investigation of Proton and Electron Irradiation Effects on Perlite and Different Rate Lead Containing Samples of Perlite**

YAVUZ M., ÇAPALIV., ŞEKERCİ M., KAPLAN A., TİLKİ T.

12th International Conference on Interaction of Radiation with Solids (IRS-2017), Minsk, Belarus, 19 - 22 September 2017, pp.116-118

- **Comparison of Bentonite and Sn Doped Bentonite Samples Under the Effects of Proton and Electron Irradiation**

TİLKİ T., ŞEKERCİ M., ÇAPALIV., KAPLAN A., YAVUZ M.

12th International Conference on Interaction of Radiation with Solids (IRS-2017), Minsk, Belarus, 19 - 22 September 2017, pp.111-113

- **Investigation of Proton and Alpha Radiation Effects on Polymer Concrete by Using Geant4**

KAPLAN A. N. , ŞEKERCİ M., ÇAPALIV.

12th International Conference "Interaction of Radiation with Solids (IRS-2017), Minsk, Belarus, 19 - 22 September 2017, pp.98-101

- **Hızlı Nötron Reaktörlerinde Yakıt Malzemesi Olarak Kullanılan 235,238U ve 239Pu İzotoplarına Yönelik Tesir Kesiti Hesaplamaları için Nükleer Seviye Yoğunluğu Parametresinin İncelenmesi**
ÇAPALIV., ŞEKERCİ M., KAPLAN A.
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- **Semi-Empirical Systematic Development for Photon Induced Nuclear Reaction Cross-Section Calculations**
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4th International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM 2017), Aydın, Turkey, 11 - 15 May 2017, pp.111
- **A New Developed Semi-Empirical Formula for Nuclear Reaction Cross-Section Calculations**
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- **Total Cross-section Calculations of Neutron Induced Reactions for Some Control Rod Materials Used in Nuclear Reactors**
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- **(n,el) Reaction cross-section Calculations for Some Isotopes of Cd Used as Nuclear Reactor Control Rod Material**
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- **Lu-177 Radyoizotopunun Üretim Tesir Kesiti Hesaplamaları**
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XI. Ulusal Nükleer Bilimler ve Teknolojileri Kongresi, Aydın, Turkey, 12 - 14 October 2016, pp.98
- **Polietilenin Bazı Nükleer Reaksiyonlar İle Etkileşiminin GEANT4 Benzetimi Kullanılarak İncelenmesi**
YEŞİL T. A. , ÇAPALIV., ŞEKERCİ M., YAVUZ M., TİLKİ T.
XI. Ulusal Nükleer Bilimler ve Teknolojileri Kongresi, Aydın, Turkey, 12 - 14 October 2016, pp.99
- **Effects of Mean Free Path Parameters for Reaction Cross-Section Calculations**
KAPLAN A., ÇAPALIV., ŞEKERCİ M., ÖZDOĞAN H.
1st International Underground Resources and Energy Conference, Yozgat, Turkey, 6 - 08 October 2016, pp.94
- **Production Cross-Section of Medical 177Lu Using Neutron and Proton Induced Reactions**
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1st International Underground Resources and Energy Conference, Yozgat, Turkey, 6 - 08 October 2016, pp.101
- **Cross-Section Calculations of (g,xn) and (p,xn) Reactions for 197Au**
ÖZDOĞAN H., ŞEKERCİ M., ÇAPALIV., KAPLAN A.

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- **Reaction Cross–Section Calculations of the Structural Reactor Materials 58,60,61,62,64Ni for Different Level Density Models**

ÇAPALIV., ŞEKERCİ M., ÖZDOĞAN H., KAPLAN A.

1st International Underground Resources and Energy Conference, Yozgat, Turkey, 6 - 08 October 2016, pp.47

- **Neutron Induced Cross–Section Calculations for 196,198,199,200Hg Isotopes**

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- **Cross Section Computations of 238-242Pu Nuclei Used as Nuclear Reactor Fuel Recycle Material**

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- **Neutron Emission Spectra for 208Pb Target Nucleus**

KAPLAN A., ÇAPALIV., ŞEKERCİ M., ÖZDOĞAN H.

International Workshop on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT 2016), Hatay, Turkey, 28 - 30 April 2016, pp.93-95

- **Geant4 Simulation of Nuclear Interactions for Some Polymers Used as Radiation Shielding Material**

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International Workshop on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT 2016), Hatay, Turkey, 28 - 30 April 2016, pp.33-38

- **LiH Reaktör Moderator Malzemesi İçin Hadronik Etkileşimlerin Geant4 Benzetimi**

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- **Akciğer Tümörü İçin Foton Ve Proton Işın Tedavilerininin Geant4-Monte Carlo Yöntemiyle Karşılaştırmalı Benzetimi**

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ADIM Fizik Günleri-IV, 28-29 Mayıs 2015, Kütahya, Turkey, 28 - 29 May 2015, pp.151

- **Zırhlama Malzemesi Olarak Kullanılan Ağır Beton Duvarların Radyasyon Geçirgenliği Geant4 Yazılımı İle İncelenmesi**

KAPLAN A., ÇAPALIV., ÖZDOĞAN H., ŞEKERCİ M.

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Citations

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