

Prof. SERKAN AKKOYUN

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International Researcher IDs

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Publons / Web Of Science ResearcherID: ABD-8207-2020

ScopusID: 28567575100

Yoksis Researcher ID: 53279

Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 2006 - 2011

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 2003 - 2006

Undergraduate, Ankara University, Fen Fakültesi, Fizik Bölümü, Turkey 1998 - 2003

Associate Degree, Erciyes University, Kayseri Meslek Yüksekokulu, Bilgisayar Teknolojileri Bölümü, Turkey 1995 - 1997

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, AGATA Ge dedektörleri için gama ışın, nötron simülasyonları ve iz sürme tekniği, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 2011

Postgraduate, Uzayda gama ışını ölçümleri-bir GEANT simülasyonu, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 2006

Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition, Nuclear physics

Academic Titles / Tasks

Professor, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2020 - Continues

Associate Professor, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2016 - 2020

Associate Professor, Sivas Cumhuriyet University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikler

Bölümü, 2015 - 2015

Assistant Professor, Sivas Cumhuriyet University, Sağlık Hizmetleri Meslek Yüksekokulu, Terapi Ve Rahabilasyon Bölümü, 2013 - 2015

Research Assistant, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2009 - 2013

Academic and Administrative Experience

Director of Vocational School, Sivas Cumhuriyet University, Sağlık Hizmetleri Meslek Yüksekokulu, Sağlık Hizmetleri Myo, 2019 - 2023

Sivas Cumhuriyet Üniversitesi, Kangal Meslek Yüksekokulu, 2016 - 2017

Sivas Cumhuriyet Üniversitesi, Sağlık Hizmetleri Meslek Yüksekokulu, 2013 - 2015

Courses

İleri Nükleer Fizik, Postgraduate, 2019 - 2020

Nükleer Radyasyon Algılama ve Ölçümü, Postgraduate, 2018 - 2019

Uzmanlık Alan Dersi, Postgraduate, 2019 - 2020

Radyasyondan Korunma, Associate Degree, 2019 - 2020

Fizik, Undergraduate, 2019 - 2020

Tıbbi Fizik, Undergraduate, 2019 - 2020

Mühendisler için Matematiksel Modelleme, Undergraduate, 2018 - 2019

Seminer Dersi, Postgraduate, 2018 - 2019

İleri Nükleer Fizik, Postgraduate, 2019 - 2020

Fizik, Undergraduate, 2019 - 2020

Fizik-I, Undergraduate, 2018 - 2019

Genel Fizik I, Undergraduate, 2018 - 2019

Genel Fizik II, Undergraduate, 2017 - 2018

Genel Fizik I, Undergraduate, 2018 - 2019

Optisyenlik Uygulamaları - III, Associate Degree, 2016 - 2017

Seminer Dersi, Postgraduate, 2016 - 2017

Robotik, Undergraduate, 2016 - 2017

Robotik, Undergraduate, 2016 - 2017

Uzmanlık Alan Dersi, Postgraduate, 2016 - 2017

Robotik, Undergraduate, 2016 - 2017

Fizik Ve Geometrik Optik - II, Associate Degree, 2016 - 2017

Fizik Ve Geometrik Optik - II, Associate Degree, 2016 - 2017

Optisyenlik Uygulamaları - III, Associate Degree, 2016 - 2017

Lens Tasarımı ve Kusurları, Postgraduate, 2016 - 2017

Fizik Ve Geometrik Optik - I, Associate Degree, 2016 - 2017

Optik Aletler Ve Kullanımı, Associate Degree, 2016 - 2017

Nükleer Fizik, Undergraduate, 2015 - 2016

Temel Bilgi Teknolojileri - I, Associate Degree, 2016 - 2017

Optisyenlik - III, Associate Degree, 2015 - 2016

Optik ve Oftalmik Aletler, Associate Degree, 2016 - 2017

Nükleer Fizik, Undergraduate, 2015 - 2016

Optisyenlik Uygulamaları - II, Associate Degree, 2016 - 2017

Fizik Ve Geometrik Optik - I, Associate Degree, 2016 - 2017

Optik Aletler Ve Kullanımı, Associate Degree, 2014 - 2015

Optik Aletler Ve Kullanımı, Associate Degree, 2014 - 2015

Araştırma Projesi, Associate Degree, 2015 - 2016
Temel Fizik, Associate Degree, 2015 - 2016
Optik Aletler Ve Kullanımı, Associate Degree, 2014 - 2015
Matematik, Associate Degree, 2014 - 2015
Temel Fizik, Associate Degree, 2014 - 2015
Röntgen Fiziği, Associate Degree, 2014 - 2015
Nükleer Tıp, Associate Degree, 2014 - 2015
Matematik, Associate Degree, 2014 - 2015
Matematik, Associate Degree, 2013 - 2014
Nükleer Tıp, Associate Degree, 2014 - 2015
Fizik - I, Associate Degree, 2013 - 2014
Temel Bilgisayar Teknolojileri Kullanımı, Associate Degree, 2013 - 2014
Temel Bilgi Teknolojileri Kullanımı, Associate Degree, 2013 - 2014
Temel Bilgi Teknolojileri Kullanımı, Associate Degree, 2013 - 2014

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Sivas Cumhuriyet Üniversitesi, October, 2020
Associate Professor Exam, Associate Professor Exam, Sivas Cumhuriyet Üniversitesi, March, 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Neutron-Alpha Reaction Cross Section Determination by Machine Learning Approaches**
Amrani N., Yeşilkanat C. M., AKKOYUN S.
Journal of Fusion Energy, vol.43, no.2, 2024 (SCI-Expanded)
- II. **Theoretical comparison of transition rate $B(E2)$ and deformation parameter with experimental data for calcium (^{20}Ca) isotopes using shell model theory**
Ali A. H., AKKOYUN S., Abbasi A., Hossain I., Korna A., Deressu T. T., Alshammari H., Al Ali A. S.
Modern Physics Letters A, vol.39, no.25-26, 2024 (SCI-Expanded)
- III. **Further investigation on the fusion of ^6Li with ^{209}Bi target at near-barrier energies**
Zhang G., Jiao Z., Zhang G., Cortes M., Hu S., Qian J., Mengoni D., Qu W., Li C., Zheng Y., et al.
Chinese Physics C, vol.48, no.7, 2024 (SCI-Expanded)
- IV. **A SEARCH FOR LEPTONIC PHOTON, Z_1 , AT ALL THREE CLIC ENERGY STAGES BY USING ARTIFICIAL NEURAL NETWORKS (ANN)**
Kara S., AKKOYUN S.
Acta Physica Polonica B, vol.55, no.6, 2024 (SCI-Expanded)
- V. **Machine learning predictions for cross-sections of $^{43,44}\text{Sc}$ radioisotope production by alpha-induced reactions on Ca target**
AKKOYUN S., Yeşilkanat C. M., BAYRAM T.
Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms, vol.549, 2024 (SCI-Expanded)
- VI. **Generation of fusion and fusion-evaporation reaction cross-sections by two-step machine learning methods**
AKKOYUN S., Yeşilkanat C. M., BAYRAM T.
Computer Physics Communications, vol.297, 2024 (SCI-Expanded)
- VII. **Neutron Single-Particle States in ^{101}Sn by Polynomial Fits and Shell Model Calculations for Light Sn Isotopes**
Yakhelef A., AKKOYUN S.
Brazilian Journal of Physics, vol.54, no.1, 2024 (SCI-Expanded)

- VIII. **Applications of different machine learning methods on nuclear charge radius estimations**
BAYRAM T., Yeşilkanat C. M., AKKOYUN S.
Physica Scripta, vol.12, no.1, 2023 (SCI-Expanded)
- IX. **Estimation of the $S_{34}(0)$ S-factor for $3\text{He}(\alpha, \gamma)7\text{Be}$ reaction by using distorted wave born approximation and artificial neural network**
KOÇAK G., Pasayigit E., AKKOYUN S.
Physica Scripta, vol.98, no.10, 2023 (SCI-Expanded)
- X. **Determination of Photonuclear Reaction Cross-Sections on Stable P-shell Nuclei by Using Deep Neural Networks**
AKKOYUN S., KAYA H., ŞEKER A., YEŞİLYURT S.
Brazilian Journal of Physics, vol.53, no.4, 2023 (SCI-Expanded)
- XI. **Performance of machine learning algorithms on neutron activations for Germanium isotopes**
Gargouri R., AKKOYUN S., Maalej R., Damak K.
Radiation Physics and Chemistry, vol.208, 2023 (SCI-Expanded)
- XII. **Estimation of fission barrier heights for even-even superheavy nuclei using machine learning approaches**
Yesilkanat C. M., AKKOYUN S.
Journal of Physics G: Nuclear and Particle Physics, vol.50, no.5, 2023 (SCI-Expanded)
- XIII. **Predicting β -decay energy with machine learning**
Munoz J. M., AKKOYUN S., Reyes Z. P., Pachon L. A.
Physical Review C, vol.107, no.3, 2023 (SCI-Expanded)
- XIV. **Neural network predictions of $(n,2n)$ reaction cross-sections at 14.6 MeV incident neutron energy**
AKKOYUN S., Amrani N., BAYRAM T.
Applied radiation and isotopes : including data, instrumentation and methods for use in agriculture, industry and medicine, vol.191, pp.110554, 2023 (SCI-Expanded)
- XV. **Neural network estimations of annealed and non-annealed Schottky diode characteristics at wide temperatures range**
DOĞAN H., Duman S., TORUN Y., AKKOYUN S., Doğan S., ATİCİ U.
Materials Science in Semiconductor Processing, vol.149, 2022 (SCI-Expanded)
- XVI. **Effect of the Woods-Saxon Spin-Orbit Term on the Nuclear Spectra: O-18 Application**
AKKOYUN S.
BRAZILIAN JOURNAL OF PHYSICS, vol.52, no.3, 2022 (SCI-Expanded)
- XVII. **Estimations of first $2(+)$ energy states of even-even nuclei by using artificial neural networks**
Akkoyun S., Kaya H., Torun Y.
INDIAN JOURNAL OF PHYSICS, vol.96, no.6, pp.1791-1797, 2022 (SCI-Expanded)
- XVIII. **Artificial-intelligence-supported shell-model calculations for light Sn isotopes**
AKKOYUN S., Yakhelef A.
PHYSICAL REVIEW C, vol.105, no.4, 2022 (SCI-Expanded)
- XIX. **Energy transitions and half-life determinations of Sc-47 isotopes from photonuclear reaction on Ti target**
KOÇAK G., AKKOYUN S., BOZTOSUN İ., Dapo H.
INTERNATIONAL JOURNAL OF MODERN PHYSICS E, vol.31, no.03, 2022 (SCI-Expanded)
- XX. **MODELING OF PATELLA HEIGHT WITH DISTAL FEMUR AND PROXIMAL TIBIA REFERENCE POINTS WITH ARTIFICIAL NEURAL NETWORK**
OTAĞ İ., ÇİMEN K., TORUN Y., PAZARCI Ö., AKKOYUN S., OTAĞ A., ÇİMEN M.
Journal of Mechanics in Medicine and Biology, vol.22, no.2, 2022 (SCI-Expanded)
- XXI. **Estimations of (n, p) reaction cross-sections at 14.5 MeV incident neutron energy by artificial neural networks**
AKKOYUN S., Amrani N.
Radiation Physics and Chemistry, vol.184, 2021 (SCI-Expanded)
- XXII. **Neuro-fuzzy modeling of deformation parameters for fusion-barriers**

- Akkoyun S., Torun Y.
NUCLEAR ENGINEERING AND TECHNOLOGY, vol.53, no.5, pp.1612-1618, 2021 (SCI-Expanded)
- XXIII. **Optical analysis of quantum dot with velocity-dependent potential**
BAHAR M. K., Ungan F., Kaya H., AKKOYUN S.
INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY, vol.121, no.5, 2021 (SCI-Expanded)
- XXIV. **Estimation of the wind speed in Sivas province by using the artificial neural networks**
GÜRLEK C., Sahin M., AKKOYUN S.
Wind and Structures, An International Journal, vol.32, no.2, pp.161-167, 2021 (SCI-Expanded)
- XXV. **Estimation of fusion reaction cross-sections by artificial neural networks**
AKKOYUN S.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.462, pp.51-54, 2020 (SCI-Expanded)
- XXVI. **Adjustment of Non-linear Interaction Parameters for Relativistic Mean Field Approach by Using Artificial Neural Networks**
Bayram T., Akkoyun S., Senturk S.
PHYSICS OF ATOMIC NUCLEI, vol.81, no.3, pp.288-295, 2018 (SCI-Expanded)
- XXVII. **Determinations of Er-171 half-life and some Tm-171 transition energies**
BAYRAM T., AKKOYUN S.
NUCLEAR SCIENCE AND TECHNIQUES, vol.29, no.3, 2018 (SCI-Expanded)
- XXVIII. **Consistent neural network empirical physical formula constructions for nonlinear scattering intensities of dye-doped nematic liquid crystals with ultraviolet pump laser-driven Fredericksz threshold shifts**
POLAT Ö., YILDIZ N., AKKOYUN S.
OPTIK, vol.158, pp.204-210, 2018 (SCI-Expanded)
- XXIX. **Transition energy and half-life determinations of photonuclear reaction products of erbium nuclei**
Bayram T., AKKOYUN S., Uruk S., Dapo H., Dulger F., BOZTOSUN İ.
INTERNATIONAL JOURNAL OF MODERN PHYSICS E-NUCLEAR PHYSICS, vol.25, no.12, 2016 (SCI-Expanded)
- XXX. **Energy level and half-life determinations from photonuclear reaction on Ga target**
AKKOYUN S., Bayram T., Dulger F., Dapo H., BOZTOSUN İ.
INTERNATIONAL JOURNAL OF MODERN PHYSICS E-NUCLEAR PHYSICS, vol.25, no.8, 2016 (SCI-Expanded)
- XXXI. **Estimation of the femur length from its proximal measurements in Anatolian Caucasians by artificial neural networks**
OTAĞ İ., OTAĞ A., AKKOYUN S., ÇİMEN M.
AUSTRALIAN JOURNAL OF FORENSIC SCIENCES, vol.48, no.3, pp.279-286, 2016 (SCI-Expanded)
- XXXII. **Probing for leptophilic gauge boson Z(1) at ILC with root $s=1$ TeV by using ANN**
Kara S. O., AKKOYUN S., Bayram T.
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, vol.29, no.30, 2014 (SCI-Expanded)
- XXXIII. **Estimations of fission barrier heights for Ra, Ac, Rf and Db nuclei by neural networks**
AKKOYUN S., Bayram T.
INTERNATIONAL JOURNAL OF MODERN PHYSICS E-NUCLEAR PHYSICS, vol.23, no.10, 2014 (SCI-Expanded)
- XXXIV. **Estimations of beta-decay energies through the nuclidic chart by using neural network**
AKKOYUN S., Bayram T., TÜRKER T.
RADIATION PHYSICS AND CHEMISTRY, vol.96, pp.186-189, 2014 (SCI-Expanded)
- XXXV. **A way in determination of patellar position: Ligamentum patellae angle and a neural network application**
OTAĞ İ., OTAĞ A., AKKOYUN S., ÇİMEN M.
BIOCYBERNETICS AND BIOMEDICAL ENGINEERING, vol.34, no.3, pp.184-188, 2014 (SCI-Expanded)
- XXXVI. **A study on ground-state energies of nuclei by using neural networks**
Bayram T., AKKOYUN S., Kara S. O.
ANNALS OF NUCLEAR ENERGY, vol.63, pp.172-175, 2014 (SCI-Expanded)
- XXXVII. **Identification and rejection of scattered neutrons in AGATA**

Senyigit M., Atac A., Akkoyun S., Kaskas A., Bazzacco D., Nyberg J., Recchia F., Brambilla S., Camera F., Crespi F. C. L., et al.

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.735, pp.267-276, 2014 (SCI-Expanded)

XXXVIII. **Construction of consistent neural network empirical physical formulas for detector counts in neutron exit channel selection**

AKKOYUN S., YILDIZ N.

MEASUREMENT, vol.46, no.9, pp.3192-3197, 2013 (SCI-Expanded)

XXXIX. **Global properties of K hindrance probed by the gamma decay of the warm rotating W-174 nucleus**

Vandone V., Leoni S., Benzoni G., Blasi N., Bracco A., Brambilla S., Boiano C., Bottoni S., Camera F., Corsi A., et al.

PHYSICAL REVIEW C, vol.88, no.3, 2013 (SCI-Expanded)

XL. **NEW PARAMETERS FOR NUCLEAR CHARGE RADIUS FORMULAS**

Bayram T., AKKOYUN S., Kara S. O., Sinan A.

ACTA PHYSICA POLONICA B, vol.44, no.8, pp.1791-1799, 2013 (SCI-Expanded)

XLI. **A method for determination of gamma-ray direction in space**

Akkoyun S.

ACTA ASTRONAUTICA, vol.87, pp.147-152, 2013 (SCI-Expanded)

XLII. **An analysis of E(5) shape phase transitions in Cr isotopes with covariant density functional theory**

Bayram T., AKKOYUN S.

PHYSICA SCRIPTA, vol.87, no.6, 2013 (SCI-Expanded)

XLIII. **Time-of-flight discrimination between gamma-rays and neutrons by using artificial neural networks**

Akkoyun S.

ANNALS OF NUCLEAR ENERGY, vol.55, pp.297-301, 2013 (SCI-Expanded)

XLIV. **An artificial neural network application on nuclear charge radii**

Akkoyun S., Bayram T., Kara S. O., Sinan A.

JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.40, no.5, 2013 (SCI-Expanded)

XLV. **An approximation to the cross sections of Z (I) boson production at CLIC by using neural networks**

AKKOYUN S., Kara S. O.

CENTRAL EUROPEAN JOURNAL OF PHYSICS, vol.11, no.3, pp.345-349, 2013 (SCI-Expanded)

XLVI. **Response of AGATA segmented HPGe detectors to gamma rays up to 15.1 MeV**

Crespi F. C. L., Avigo R., Camera F., Akkoyun S., Atac A., Bazzacco D., Bellato M., Benzoni G., Blasi N., Bortolato D., et al.

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.705, pp.47-54, 2013 (SCI-Expanded)

XLVII. **Neural network consistent empirical physical formula construction for neutron-gamma discrimination in gamma ray tracking**

YILDIZ N., AKKOYUN S.

ANNALS OF NUCLEAR ENERGY, vol.51, pp.10-17, 2013 (SCI-Expanded)

XLVIII. **Consistent empirical physical formula construction for recoil energy distribution in HPGe detectors by using artificial neural networks**

AKKOYUN S., YILDIZ N.

RADIATION MEASUREMENTS, vol.47, no.8, pp.571-576, 2012 (SCI-Expanded)

XLIX. **Neural network consistent empirical physical formula construction for density functional theory based nonlinear vibrational absorbance and intensity of 6-choloronicotinic acid molecule**

YILDIZ N., Karabacak M., KURT M., AKKOYUN S.

SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.90, pp.55-62, 2012 (SCI-Expanded)

L. **AGATA-Advanced Gamma Tracking Array**

Akkoyun S., Algora A., Alikhani B., Ameil F., de Angelis G., Arnold L., Astier A., Atac A., Aubert Y., Aufranc C., et al.

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.668, pp.26-58, 2012 (SCI-Expanded)

- LI. **Discrimination of gamma rays due to inelastic neutron scattering in AGATA**
Atac A., Kaskas A., Akkoyun S., Senyigit M., Huyuk T., Kara S. O., Nyberg J.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS
DETECTORS AND ASSOCIATED EQUIPMENT, vol.607, no.3, pp.554-563, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **Machine Learning Based Classification of the Halos in Light Nuclei Region**
Akkoyun S.
Cumhuriyet Science Journal, vol.45, no.1, pp.160-163, 2024 (Peer-Reviewed Journal)
- II. **Predictions on Flexible CdTe Solar Cell Performances by Artificial Neural Networks**
Ganbarova S., AKKOYUN S., mamedov v., mamedov H.
CUMHURİYET SCIENCE JOURNAL, vol.44, 2023 (Peer-Reviewed Journal)
- III. **Gebelerin Prenatal Emzirme Özyeterliliğinin Yapay Sinir Ağları Modeli ile Değerlendirilmesi**
AKKOYUN S., EVCİLİ F.
Sağlık Hizmetleri Araştırma Dergisi, vol.1, no.1, pp.7-13, 2023 (Peer-Reviewed Journal)
- IV. **Excited Energy Spectra for He and Be Isotopes from Different Shell Model Interactions**
Bektemir İ., AKKOYUN S.
Nükleer Bilimler Enstitüsü, Ankara University, 2023 (Peer-Reviewed Journal)
- V. **Production cross-section and reaction yield of ^{82}Sr for $^{82}\text{Sr}/^{82}\text{Rb}$ generator**
ŞENTÜRK Ş., BAYRAM T., AKKOYUN S.
CUMHURİYET SCIENCE JOURNAL, vol.43, no.4, pp.716-720, 2022 (Peer-Reviewed Journal)
- VI. **Plasma Shielding Effects on Nuclear Spectra: ^{18}Ne Application**
AKKOYUN S., BAHAR M. K.
Bulletin of the Russian Academy of Sciences: Physics, vol.86, no.11, pp.1387-1390, 2022 (Scopus)
- VII. **Nükleer Kabuk Modeli ile Ne İzotoplarının Nükleer Yapısının İncelenmesi**
AKKOYUN S., BAYRAM T.
Academic Platform Journal of Engineering and Science, vol.9, no.3, pp.296-301, 2021 (Peer-Reviewed Journal)
- VIII. **Distance Education in Pandemic: Health Services Vocational School Students\2019 Views and Suggestions**
EVCİLİ F., GÜÇLÜ G., AKKOYUN S.
Turkish Journal of Science and Health, vol.2, no.2, pp.82-88, 2021 (Peer-Reviewed Journal)
- IX. **^{51}Cr Radyoizotopunun Üretim Tesir Kesitinin Yapay Sinir Ağları ile Elde Edilmesi**
AKKOYUN S., BAYRAM T.
Türk Fen ve Sağlık Dergisi, vol.2, no.1, pp.133-138, 2021 (Peer-Reviewed Journal)
- X. **Production Cross-Section of ^{51}Cr Radioisotope Using Artificial Neural Networks**
Akkoyun S., Bayram T.
Turkish Journal of Science and Health, vol.2, no.1, pp.133-138, 2021 (Peer-Reviewed Journal)
- XI. **Calculations of Yield Cross-Sections of ^{51}Cr , ^{99}Mo and ^{133}Xe Radioisotopes via Neutron Induced Reactions**
BAYRAM T., AKKOYUN S., ŞENTÜRK Ş., HAYDER A.
Journal of Investigations on Engineering and Technology, vol.3, no.2, pp.55-57, 2020 (Peer-Reviewed Journal)
- XII. **$N = Z$ even-even proton-rich nuclei and nuclear structure**
Laouet N., Benrachi F., AKKOYUN S.
SN Applied Sciences, vol.2, no.11, 2020 (ESCI)
- XIII. **Estimations of Cross-Sections for Photonuclear Reaction on Calcium Isotopes by Artificial Neural Networks**
AKKOYUN S., KAYA H.
Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 2020 (Peer-Reviewed Journal)
- XIV. **Nuclear Shell Model Calculations for Ca Isotopes**

- AKKOYUN S., BAYRAM T., Ayhan Y.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, 2020 (Peer-Reviewed Journal)
- XV. **Estimation of the future fracture epidemiology in the patients applying to the emergency department with long short time memory metho**
AKKOYUN S.
Cumhuriyet Science Journal, 2020 (Peer-Reviewed Journal)
- XVI. **Estimation of the future fracture epidemiology in the patients applying to the emergency department with long short time memory method**
PAZARCI Ö., TORUN Y., AKKOYUN S.
Cumhuriyet Science Journal, vol.41, no.3, pp.741-746, 2020 (Peer-Reviewed Journal)
- XVII. **Ca İzotopları için Nükleer Kabuk Modeli Hesaplamaları**
AKKOYUN S., BAYRAM T., AYHAN Y.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.9, no.3, pp.1102-1107, 2020 (Peer-Reviewed Journal)
- XVIII. **Nuclear Shell Model Calculations for A=49 Isobars**
AKKOYUN S.
Türk Fen ve Sağlık Dergisi, 2020 (Peer-Reviewed Journal)
- XIX. **Investigation of Nuclear Structures of Self-conjugate Zn, Ge, Se, Kr, Sr Nuclei**
AKKOYUN S., BAYRAM T.
International Journal of Advances in Engineering and Pure Sciences, 2020 (Peer-Reviewed Journal)
- XX. **Shell Model Calculations for Proton-rich Zn Isotopes via New Generated Effective Interaction by Artificial Neural Networks**
AKKOYUN S., BAYRAM T.
Cumhuriyet Science Journal, vol.40, no.3, pp.570-577, 2019 (Peer-Reviewed Journal)
- XXI. **Shell Model Calculations for some pf Shell Nuclei**
AKKOYUN S., BAYRAM T., BÖYÜKATA M.
ALKÜ Fen Bilimleri Dergisi, vol.1, pp.18-22, 2019 (Peer-Reviewed Journal)
- XXII. **Neural Network Estimation for Attenuation Coefficients for Gamma-ray Angular Distribution**
YILDIZ N., AKKOYUN S., KAYA H.
Physics of Particles and Nuclei Letters, 2019 (Scopus)
- XXIII. **Consistent Empirical Physical Formula Construction for Gamma Ray Angular Distribution Coefficients by Layered Feedforward Neural Network**
AKKOYUN S., YILDIZ N., KAYA H.
Cumhuriyet Science Journal, vol.39, no.4, 2018 (Peer-Reviewed Journal)
- XXIV. **Ground-state properties of some N=Z nuclei**
AKKOYUN S., BAYRAM T., şentürk ş.
Journal of Nuclear Science, vol.4, no.2, pp.45-49, 2018 (Peer-Reviewed Journal)
- XXV. **Test of ^3He target to be used for transfer reactions in inverse kinematics**
AKKOYUN S.
LNL Annual Report, 2018 (Peer-Reviewed Journal)
- XXVI. **Surface Energy Coefficient Determination in Global Mass Formula from Fission Barrier Energy**
AKKOYUN S., BAYRAM T.
Cumhuriyet Science Journal, vol.38, pp.711-715, 2017 (Peer-Reviewed Journal)
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- AKKOYUN S., Project Supported by Higher Education Institutions, Erbiyum Çekirdeklerinin Fotonükleer Reaksiyon Ürünlerinin Enerji Seviyelerinin ve Yarı Ömürlerinin Deneysel Olarak Belirlenmesi, 2015 - 2016
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Activities in Scientific Journals

Cumhuriyet Science Journal, Editor, 2012 - Continues

Scientific Refereeing

APPLIED RADIATION AND ISOTOPES, SCI Journal, December 2020

Tasks In Event Organizations

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Metrics

Publication: 181

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Congress and Symposium Activities

I. International Underground Resources and Energy Conference, Invited Speaker, Yozgat, Turkey, 2016

Scholarships

2219-Post-doc (Italy) , TUBITAK, 2017 - 2018

Non Academic Experience

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