

Asst. Prof. ŞADIYE MERAL ÇAKMAK

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Celâl Bayar Üniversitesi, Fen Bilimleri Enstitüsü, Nükleer Fizik (YI) (Tezli), Turkey 2012 - 2015

Postgraduate, Anadolu University, Faculty Of Arts And Sciences, Fizik Pr., Turkey 2008 - 2010

Undergraduate, Gazi University, Gazi Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, Turkey 2003 - 2008

Dissertations

Doctorate, Astrofiziksel koşullar altında Gamow-Teller geçişlerinin incelenmesi, Celâl Bayar Üniversitesi, Fen Bilimleri Enstitüsü, Nükleer Fizik (YI) (Tezli), 2015

Postgraduate, Yarı-simetrik moleküllerin simetri operasyonlarının Clifford cebiriyle incelenmesi, Anadolu University, Fen-Edebiyat Fakültesi, Fizik Pr., 2010

Research Areas

Physics, Nuclear physics, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Eskisehir Osmangazi University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikler Bölümü, 2016 - Continues

Lecturer, European Vocational School, Avrupa Vocational School, Department Of Medical Services And Techniques, 2016 - 2016

Courses

Associate Degree

FİZİK 1, Associate Degree, 2017 - 2018, 2016 - 2017

FİZİK 2, Associate Degree, 2017 - 2018, 2016 - 2017

KARANLIK ODA TEKNİKLERİ, Associate Degree, 2017 - 2018, 2016 - 2017

Röntgen Fiziği, Associate Degree, 2017 - 2018

FİZİK, Associate Degree, 2017 - 2018, 2016 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **InP/ZnS core/shell quantum dots: Synthesis, characterization and their application in fullerene derivative based flexible solar cells**
Zhichu C., Tahir M., Muhammad F., Aziz F., Ayub A., Badshah F., Refat M. S., ÇAKMAK Ş. M., Rehan S., Adam A. M. A., et al.
Results in Physics, vol.69, 2025 (SCI-Expanded)
- II. **Beta decay logft values for zinc isotopes by using pn-QRPA**
ÇAKMAK Ş., Çakmak N.
Nuclear Physics A, vol.1015, 2021 (SCI-Expanded)
- III. **Several QRPA method calculations of the Gamow-Teller strength distributions in Ge62-72**
ÇAKMAK Ş.
INDIAN JOURNAL OF PHYSICS, vol.95, no.10, pp.2155-2167, 2021 (SCI-Expanded)
- IV. **ESTIMATION OF RADIOLOGICAL EXPOSURE LEVELS IN A MINING AREA BASED ON U-238, Ra-226, Th-232 and K-40 ACTIVITY MEASUREMENTS: A CASE STUDY FOR BEYLIKOVA-SIVRIHISAR COMPLEX ORE SITE IN TURKEY**
YÜCEL H., Ovuc S., AKKAYA G., Cakmak Ş.
RADIATION PROTECTION DOSIMETRY, vol.190, no.3, pp.297-306, 2020 (SCI-Expanded)
- V. **Dipole and spin-dipole strength distributions in Te-124, Te-126, Te-128, Te-130 isotopes**
ÇAKMAK N., ÇAKMAK Ş., SELAM C., ÜNLÜ S.
PRAMANA-JOURNAL OF PHYSICS, vol.90, no.2, 2018 (SCI-Expanded)
- VI. **Investigation of Gamow Teller transition properties in Ni56-64 isotopes using QRPA methods**
ÇAKMAK Ş., Nabi J., BABACAN T.
NUCLEAR PHYSICS A, vol.970, pp.86-106, 2018 (SCI-Expanded)
- VII. **Spin-isospin transitions in chromium isotopes within the quasiparticle random phase approximation**
Cakmak Ş., Nabi J., Babacan T., Maras I.
ADVANCES IN SPACE RESEARCH, vol.55, no.1, pp.440-453, 2015 (SCI-Expanded)
- VIII. **Study of Gamow-Teller transitions in isotopes of titanium within the quasi particle random phase approximation**
Cakmak Ş., Nabi J., Babacan T., Selam C.
ASTROPHYSICS AND SPACE SCIENCE, vol.352, no.2, pp.645-663, 2014 (SCI-Expanded)

Articles Published in Other Journals

- I. **AN APPLICATION OF CLIFFORD ALGEBRA ON THE SEMI-SYMMETRICAL ARCHIMEDEAN SOLID TRUNCATED ICOSAHEDRON**
ÇAKMAK Ş.
Anadolu Üniversitesi Bilim ve Teknoloji Dergisi :B-Teorik Bilimler, vol.9, pp.29-34, 2021 (Peer-Reviewed Journal)
- II. **THE log(ft) VALUES IN SPHERICAL AND DEFORMED NUCLEI FOR SOME ODD-A GERMANIUM ISOTOPES**
ÇAKMAK Ş.
Anadolu Üniversitesi Bilim ve Teknoloji Dergisi :B-Teorik Bilimler, vol.9, pp.20-28, 2021 (Peer-Reviewed Journal)
- III. **Effect of deformation, particle-hole and particle-particle interaction on Gamow-Teller Transitions of 76Ge**
ÇAKMAK Ş.
Cumhuriyet Science Journal, vol.41, no.1, pp.212-227, 2020 (Peer-Reviewed Journal)
- IV. **Triaxiality and Cubic Terms From Casimir Invariants**

ÇAKMAK Ş., Ramesh K.

KMU Journal of Engineering and Natural Sciences, vol.1, no.2, pp.40-47, 2020 (Peer-Reviewed Journal)

V. **THE STUDY OF CLASSICS PARTICLES'xx ENERGY AT ARCHIMEDEAN SOLIDS WITH CLIFFORD ALGEBRA**

ÇAKMAK Ş., KILIÇ A.

Eskişehir Technical University Journal of Science and Technology A - Applied Sciences and Engineering, vol.20, pp.170-180, 2019 (Peer-Reviewed Journal)

Books

I. **SOĞURUM, GEÇİRİM VE YANSIMA**

ÇAKMAK Ş.

in: FİZİK-GEOMETRİK OPTİK I, Hülya Kuru Mutlu, Editor, akademisyen yayınevi, pp.31-51, 2019

II. **MERCEKLER**

ÇAKMAK Ş.

in: FİZİK-GEOMETRİK OPTİK I, Hülya Kuru Mutlu, Editor, Akademisyen yayınevi, pp.147-179, 2019

Papers Published in Refereed Scientific Meetings

I. **The Study of Classics Particles'xx Energy at Archimedean Solids with Clifford Algebra**

ÇAKMAK Ş., KILIÇ A.

ICONAT 2019 International Conference on Natural Sciences and Technologies, 18 - 20 September 2019

II. **Beylikova Kompleks Cevher Sahasından Elde Edilen Numunelerde Radyoaktivite İçeriğinin Belirlenmesi ve NTE Madenciliğinde Olası Doz Seviyelerinin Tahmini**

YÜCEL H., ÖVÜÇ S., AKKAYA G., ÇAKMAK Ş.

1. Nadir Toprak Elementleri ve Toryum Çalıştayı, Eskişehir, Turkey, 11 - 12 June 2019

III. **STUDY OF GAMOW-TELLER TRANSITIONS FOR GERMANIUM ISOTOPES**

ÇAKMAK Ş.

SIXTH INTERNATIONAL CONFERENCE ON RADIATION AND APPLICATIONS IN VARIOUS FIELDS OF RESEARCH (RAD 2018), 18 - 22 June 2018, pp.439

IV. **Charge-Exchange Dipole and Spin-Dipole Excitations In Odd Mass Nuclei**

SELAM C., ÇAKMAK N., ÜNLÜ S., ÇAKMAK Ş.

NSP2017, 20 - 22 September 2017, pp.25

V. **Charge exchange spin-dipole excitations in spherical nuclei ($0 \leftrightarrow 0$ -transitions)**

SELAM C., ÇAKMAK Ş., ÇAKMAK N., ÜNLÜ S.

TESNAT 2017, 10 - 12 May 2017, pp.34

VI. **Two-neutrino double beta decay rates for some spherical nuclei**

ÜNLÜ S., ÇAKMAK N., ÇAKMAK Ş., SELAM C.

TESNAT-2017, Adana, Turkey, 10 - 12 May 2017, pp.35

VII. **Two-neutrino double beta decay rates for some spherical nuclei**

ÜNLÜ S., ÇAKMAK N., ÇAKMAK Ş., SELAM C.

TESNAT 2017, 10 May 2017, pp.35

VIII. **DJ=2 first forbidden beta-decay transitions in even-even heavy nuclei**

ÇAKMAK N., ÜNLÜ S., ÇAKMAK Ş., SELAM C.

TESNAT 2017, 10 - 12 May 2017, pp.41

IX. **The study of dipole and spin dipole strength distributions in Sn isotopes**

ÇAKMAK Ş., ÜNLÜ S., ÇAKMAK N., SELAM C.

TESNAT 2017, 10 - 12 May 2017, pp.36

X. **Charge exchange spin-dipole excitations in spherical nuclei ($0 \rightarrow 0$ - transitions)**

SELAM C., ÇAKMAK Ş., ÇAKMAK N., ÜNLÜ S.

TESNAT 2017, Adana, Turkey, 10 - 12 May 2017, pp.34

XI. Delta J=2 first forbidden beta decay transitions in even-even heavy nuclei

ÇAKMAK N., ÜNLÜ S., ÇAKMAK Ş., SELAM C.

TESNAT-2017, Adana, Turkey, 10 - 12 May 2017, pp.41

XII. The study of dipol and spin dipol strength distributions in Sn isotops

ÇAKMAK Ş., ÜNLÜ S., ÇAKMAK N., SELAM C.

TESNAT-2017, Adana, Turkey, 10 - 12 May 2017, pp.36

Metrics

Publication: 27

Citation (WoS): 25

Citation (Scopus): 33

H-Index (WoS): 3

H-Index (Scopus): 4

Non Academic Experience

Avrupa Meslek Yüksekokulu, Yardımcı Doçent

Avrupa Meslek yüksekokulu, Öğretim görevlisi Dr