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Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 1998 - 2005

Postgraduate, Manisa Celal Bayar University, Institute Of Science, Turkey 1994 - 1997

Undergraduate, Selcuk University, Faculty Of Education, Fizik Öğretmenliği Pr., Turkey 1990 - 1994

Dissertations

Doctorate, SEL-çekirdek çarpıştırıcılarında toryum çekirdeğinin uyarılmış seviyelerinin incelenmesiInvestigations of the toryum nucleus excitations at the FEL-nucleus colliders, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2005

Postgraduate, Bazı çift-çift Nd izotoplarının nükleer özelliklerinin etkileşen bozon modeli ile incelenmesiThe Investigation on the nuclear properties of some even-even Nd isotopes within interacting bosson model, Manisa Celal Bayar University, Institute Of Science, 1997

Research Areas

Physics, Natural Sciences

Academic Titles / Tasks

Associate Professor, Gazi University, Fen Fakültesi, Fizik, 2014 - Continues

Research Assistant PhD, Gazi University, Fen Fakültesi, Fizik, 2005 - 2014

Research Assistant, Gazi University, Fen Fakültesi, Fizik, 1997 - 2005

Teacher, 1994 - 1997

Academic and Administrative Experience

Gazi University, Fen Fakültesi, 2017 - Continues

Advising Theses

ÖZCAN A., 6 MeV enerjili elektron hızlandırıcısı için 800 MHz frekanslı RF kovuk tasarımı, Postgraduate, T.SEVİNÇ(Student), 2019

ÖZCAN A., An Investigation On Level Density Parameter Dependency Of ^{235}U , ^{238}U , ^{237}Np Ve ^{239}Pu Nuclei Cross Sections, Postgraduate, Ş.ALVER(Student), 2018

ÖZCAN A., ^{235}U , ^{238}U , ^{237}Np ve ^{239}Pu çekirdeklerinin (α, f) tesir kesitlerinin seviye yoğunluk parametresine bağlılığının incelenmesi, Postgraduate, Ş.ALVER(Student), 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Monte Carlo simulation of gamma shielding properties of Lanthanum hexaboride (LaB₆) and Cerium hexaboride (CeB₆) materials synthesized by magnesiothermic reduction**
ÖZCAN A., Turkan N., Aksu M., Gulbicim H., Kurt E.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.38, no.2, pp.927-936, 2023 (SCI-Expanded)
- II. **The Structural, Elastic, Electronic, Thermodynamic and Vibrational Properties of Protactinium Monocarbide (PaC) from First-Principles Calculations**
Ciftci Y., Coban C., AYDIN S., Tatar A., Evecen M.
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.11, no.4, pp.506-513, 2016 (SCI-Expanded)
- III. **Effect of pressure on structural, electronic, mechanical and optical properties of ruthenium diboride with oP(12)-type structure**
AYDIN S., Ciftci Y., Mogulkoc Y., Tatar A.
INDIAN JOURNAL OF PHYSICS, vol.90, no.7, pp.767-779, 2016 (SCI-Expanded)
- IV. **Some new members of MAX family including light-elements: Nanolayered Hf₂XY (X= Al, Si, P and Y=B, C, N)**
AYDIN S., Tatar A., ÇİFTCİ Y.
SOLID STATE SCIENCES, vol.53, pp.44-55, 2016 (SCI-Expanded)
- V. **Pressure depended elastic, vibration and optical properties of NbIrSn from first principles calculations**
Kocak B., Ciftci Y., Colakoglu K., Deligoz E., Tatar A.
MATERIALS SCIENCE AND TECHNOLOGY, vol.29, no.8, pp.925-930, 2013 (SCI-Expanded)
- VI. **A theoretical study for thorium monocarbide (ThC)**
AYDIN S., Tatar A., Ciftci Y.
JOURNAL OF NUCLEAR MATERIALS, vol.429, pp.55-69, 2012 (SCI-Expanded)
- VII. **Superhard transition metal tetranitrides: XN₄ (X=Re, Os, W)**
AYDIN S., ÇİFTCİ Y., Tatar A.
JOURNAL OF MATERIALS RESEARCH, vol.27, no.13, pp.1705-1715, 2012 (SCI-Expanded)
- VIII. **Study of the pre-equilibrium mean free path constant for light and heavy nuclei for (n, xn) reactions**
TEL E., Tatar A., AYDIN A.
ANNALS OF NUCLEAR ENERGY, vol.38, no.5, pp.964-968, 2011 (SCI-Expanded)
- IX. **The structural, elastic and thermodynamic properties of thorium tetraboride**
AYDIN S., Tatar A.
SOLID STATE COMMUNICATIONS, vol.151, no.8, pp.628-633, 2011 (SCI-Expanded)
- X. **The structural, mechanical and electronic properties of LiX₆ (X= C, B): a first principle study**
Özcan A., Aydın S.
Optoelectronics And Advanced Materials-Rapid Communications, vol.4, pp.1329-1331, 2010 (SCI-Expanded)
- XI. **CLIC-LHC-based FEL-nucleus collider: Feasibility and physics search potential**
Yavas O., Corsini R., Braun H., Sultansoy S., Guliyev E., Yigit S., Ozcan A.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.552, no.3, pp.440-448, 2005 (SCI-Expanded)
- XII. **Physics potential of the e-RHIC based FEL-nucleus collider**

Koru H., Ozcan A., Sultansoy S., Yavas O.

INTERNATIONAL JOURNAL OF MODERN PHYSICS E-NUCLEAR PHYSICS, vol.12, no.4, pp.533-541, 2003 (SCI-Expanded)

Articles Published in Other Journals

- I. **An Ab-initio study on UAl for nuclear applications**
Özcan A., Çiftci Y., Alp İ.
EPJ WEB OF CONFERENCES, vol.154, pp.1021-1025, 2017 (Scopus)
- II. **The investigation of hardness and bonding behavior in XB_4 , $X = \{Ce, Th, U, Pa\}$, tetraborides by first-principles**
AYDIN S., ÖZCAN A.
Turkish Journal of Physics, vol.34, no.1, pp.1-12, 2010 (ESCI)
- III. **Investigation of Proton Emission Spectra of Some Nuclear Reactor Materials for (p,xp) Reactions**
ÖZCAN A., TEL E.
SDU Journal of Science (E-Journal), vol.5, no.2, pp.211-215, 2010 (Peer-Reviewed Journal)
- IV. **The investigation of hardness and bonding behavior in XB_4 X Ce Th U Pa tetraborides by first principles**
AYDIN S., ÖZCAN A.
TURKISH JOURNAL OF PHYSICS, 2009 (Scopus)
- V. **Investigation of Nd144 and Nd146 Nucleus at FEL- Nucleus Colliders**
Özcan A.
Süleyman Demirel Üniversitesi, Fen Bilimleri Enstitüsü Dergisi,, vol.10, no.3, pp.317-322, 2006 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Maddenin Isıl Özellikleri**
Şebnem K. İ., Küçüközer H., Tatar A., Özsevgeç T., Ünlü Yavaş P., Ünsal Y., Temiz B. K., Yavuz A., Kızılcık H. Ş.
in: Genel Fizik III, Yasin ÜNSAL, Şebnem Kandil İNGEÇ, Editor, Pegem Akademi, Ankara, pp.1-29, 2014

Refereed Congress / Symposium Publications in Proceedings

- I. **An Ab-initio study on UAl for nuclear applications**
ÇİFTÇİ Y., ÖZCAN A., ALP İ.
3rd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, TESNAT 2017, Adana, Turkey, 10 - 12 May 2017, vol.154
- II. **RhAl: Structural, elastic, electronic, thermodynamic and vibrational properties by first principles calculations**
ÖZCAN A., ÇİFTÇİ Y., ALP İ.
Turkish Physical Society 33rd International Physical Congress, 6 - 10 September 2017, pp.636
- III. **First-principles Studies of RuAl compound of B2 structure**
O Çiftci Y., ÖZCAN A., EVECEN M.
TFD 33, 6 - 10 September 2017, pp.612
- IV. **Level Density Parameter Dependence in Fission Cross Sections ^{232}Th , ^{238}U and ^{237}Np Nuclei Induced by Alphas with the Incident Energy up to 100 MeV**
ÖZCAN A., AYDIN A., Alver Ş.
3rd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology", 10

- 12 May 2017

- V. **(n,p) reaction cross section calculations of 15N target nuclei with SKa skyrme parameter**
TEL E., ÖZCAN A., AYDIN A., Savaşal Öge G., YİĞİT M., ŞAHAN M.
3rd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Tecnology”, 10
- 12 May 2017
- VI. **An Ab-initio Study on UAl for nuclear applications**
ÖZCAN A., ÇİFTÇİ Y., ALP İ.
“3rd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Tecnology”, 10
- 12 May 2017
- VII. **AB INITIO CALCULATIONSO F YBCD INTERMETALLIC COMPOUND IN B2 STRUCTURE**
ÇİFTÇİ Y., ALP İ., ÖZCAN A.
TURKISH PHYSICAL SOCIETY 32. İNTERNATIONAL PHYSICS CONGRESS, 6 - 09 September 2016
- VIII. **First Principles Investigations of Structural Elastic Electronic Thermodynamic and Vibrational Properties of LaCd Compound**
Çiftci Y., Alp İ., Moğulkoç Y., Özcan A.
Turkish Physical Society 32nd International Physics Congress, Muğla, Turkey, 6 - 09 September 2016
- IX. **Ab initio Calculations of YbCd Intermetallic Compounds in B2 Structure**
ÇİFTÇİ Y., Alp İ., ÖZCAN A.
Turkish Physical Society 32 nd International Physical Congress, Turkey, 6 - 09 September 2016
- X. **FIRST PRİNCİPLES INVESTGATIONS OF STRUCTURAL ELASTIC ELECTRONIC THERMODYNAMIC AND VIBRATIONALPROPERTIES OF LACD COMPOUND**
ÇİFTÇİ Y., ALP İ., MOĞULKOÇ Y., ÖZCAN A.
TURKISH PHYSICAL SOCIETY 32. INTERNATIONAL PHYSICS CONGRESS, 6 - 09 September 2016
- XI. **First Principles Study on UB6 for Nuclear Applications**
ÇİFTÇİ Y., ÖZCAN A., Kılıç M.
International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, 28 - 30
April 2016

Supported Projects

ÖZCAN A., Project Supported by Higher Education Institutions, Bor tabanlı uranyum bileşiklerinin (UB2, UB4,UB6, UB12) fiziksel özellikleri, 2012 - 2015

ÖZCAN A., Project Supported by Higher Education Institutions, ThC, UC, PaC bileşiklerinin yapısal, elastik, elektronik, termodinamik ve optik özelliklerinin ab-initio yöntemlerle incelenmesi., 2010 - 2013

Metrics

Publication: 30

Citation (WoS): 75

Citation (Scopus): 83

H-Index (WoS): 5

H-Index (Scopus): 5