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International Researcher IDs

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Publons / Web Of Science ResearcherID: R-1664-2019

Yoksis Researcher ID: 113064

Education Information

- I. Post Doctorate, Zagreb Üniversitesi, Fizik Bölümü, Nükleer Teori, Croatia 2017 - 2018
- II. Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Fizik, Turkey 2011 - 2016
- III. Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Fizik, Turkey 2009 - 2011
- IV. Undergraduate, Bolu Abant İzzet Baysal University, Faculty Of Arts And Sciences, Turkey 2004 - 2009

Foreign Languages

- I. English, C1 Advanced

Research Areas

Physics, Nuclear physics, Properties of Nuclei, Nuclear Structure, Natural Sciences

Academic Titles / Tasks

- I. Associate Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2022 - Continues
- II. Researcher, Zagreb Üniversitesi, Physics Department, Nuclear Theory Group, Physics, Nuclear Theory, 2017 - Continues
- III. Researcher, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2016 - Continues
- IV. Researcher, Université Paris-Sud: Paris XI, Institut De Physique Nucleaire Orsay, Nuclear Theory, 2014 - Continues
- V. Researcher, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2010 - 2016

Academic and Administrative Experience

- I. Araştırma Görevlisi Temsilcisi, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2021 - Continues

- I. **Application of multilayer perceptron with data augmentation in nuclear physics**
Bahtiyar H., Soydaner D., Yüksel E.
APPLIED SOFT COMPUTING JOURNAL, vol.109470, pp.1-12, 2022 (SCI-Expanded)
- II. **Evolution of beta-decay half-lives in stellar environments**
Ravlic A., YÜKSEL E., Niu Y. F., Paar N.
PHYSICAL REVIEW C, vol.104, no.5, 2021 (SCI-Expanded)
- III. **Temperature dependence of nuclear properties: A systematic study along the isotopic and isotonic chains of nuclei**
Yüksel E.
Nuclear Physics A, vol.1014, 2021 (SCI-Expanded)
- IV. **Nuclear Equation of State in the Relativistic Point-Coupling Model Constrained by Excitations in Finite Nuclei**
YÜKSEL E., Oishi T., Paar N.
UNIVERSE, vol.7, no.3, 2021 (SCI-Expanded)
- V. **Nuclear binding energy predictions using neural networks: Application of the multilayer perceptron**
Yüksel E., Soydaner D., Bahtiyar H.
INTERNATIONAL JOURNAL OF MODERN PHYSICS E, vol.30, no.3, 2021 (SCI-Expanded)
- VI. **Stellar electron-capture rates based on finite-temperature relativistic quasiparticle random-phase approximation**
Ravlic A., YÜKSEL E., Niu Y. F., Colo G., Khan E., Paar N.
PHYSICAL REVIEW C, vol.102, no.6, 2020 (SCI-Expanded)
- VII. **Gamow-Teller excitations at finite temperature: Competition between pairing and temperature effects**
Yüksel E., Paar N., Colo G., Khan E., Niu Y.
PHYSICAL REVIEW C, vol.101, no.4, 2020 (SCI-Expanded)
- VIII. **Nuclear excitations within microscopic EDF approaches: Pairing and temperature effects on the dipole response**
Yüksel E., Colo G., Khan E., Niu Y.
EUROPEAN PHYSICAL JOURNAL A, vol.55, no.12, 2019 (SCI-Expanded)
- IX. **Optimizing the relativistic energy density functional with nuclear ground state and collective excitation properties**
Yüksel E., Marketin T., Paar N.
PHYSICAL REVIEW C, vol.99, 2019 (SCI-Expanded)
- X. **Low-energy quadrupole states in neutron-rich tin nuclei**
Yüksel E., COLO G., KHAN E., Niu Y. F.
PHYSICAL REVIEW C, vol.97, no.6, 2018 (SCI-Expanded)
- XI. **Multipole excitations in hot nuclei within the finite temperature quasiparticle random phase approximation framework**
YÜKSEL E., COLO G., KHAN E., NIU Y. F., BOZKURT K.
PHYSICAL REVIEW C, vol.96, no.2, 2017 (SCI-Expanded)
- XII. **Effect of temperature on the effective mass and the neutron skin of nuclei**
Yüksel E., Khan E., Bozkurt K., Colo G.
EUROPEAN PHYSICAL JOURNAL A, vol.50, 2014 (SCI-Expanded)
- XIII. **Effects of the tensor force on the ground state and first 2(+) states of the magic Ca-54 nucleus**
Yüksel E., Van Giai N., Khan E., Bozkurt K.
PHYSICAL REVIEW C, vol.89, 2014 (SCI-Expanded)
- XIV. **DETAILED INVESTIGATION OF THE TENSOR FORCE ON THE EVALUATION OF THE SINGLE PARTICLE LEVELS OF Z=28 AND Z=82 NUCLEI**

Yüksel E., Gök Ç., Bozkurt K.

MODERN PHYSICS LETTERS A, vol.28, 2013 (SCI-Expanded)

XV. **The soft Giant Monopole Resonance as a probe of the spin-orbit splitting**

Yüksel E., Khan E., Bozkurt K.

EUROPEAN PHYSICAL JOURNAL A, vol.49, 2013 (SCI-Expanded)

XVI. **Tensor Effects in Dipole Excitations at Finite Temperature**

Yüksel E., Bozkurt K.

ACTA PHYSICA POLONICA A, vol.123, pp.320-322, 2013 (SCI-Expanded)

XVII. **Analysis of the neutron and proton contributions to the pygmy dipole mode in doubly magic nuclei**

Yüksel E., Khan E., Bozkurt K.

NUCLEAR PHYSICS A, vol.877, pp.35-50, 2012 (SCI-Expanded)

XVIII. **TENSOR EFFECTS IN PYGMY DIPOLE EXCITATION**

YÜKSEL E., BOZKURT K.

INTERNATIONAL JOURNAL OF MODERN PHYSICS E-NUCLEAR PHYSICS, vol.20, no.10, pp.2143-2151, 2011 (SCI-Expanded)

Articles Published in Other Journals

I. **Gamow-Teller strength in ^{56}Fe nucleus at finite temperatures**

Yüksel E.

TURKISH JOURNAL OF PHYSICS, vol.42, no.5, pp.613-620, 2018 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. **Description of weak-interaction rates within the relativistic energy density functional theory**

Ravlic A., Yüksel E., Niu Y., Paar N., Colo G., Khan E.

The 16th International Symposium on Nuclei in the Cosmos, Chengdu, China, 21 - 25 September 2021, vol.260, no.11032, pp.94

II. **Nuclear symmetry energy in relativistic mean-field model constrained by collective excitations**

Oishi T., Yüksel E., Kruzic G., Paar N.

NuSym 2021 - International Symposium on Nuclear Symmetry Energy, Catania, Italy, 22 September - 20 October 2021

III. **Large-scale calculation of nuclear ground-state properties**

Yüksel E.

The LXXI International conference "NUCLEUS – 2021. Nuclear physics and elementary particle physics. Nuclear physics technologies, Sankt-Peterburg, Russia, 20 - 25 September 2021, pp.1

IV. **Study of central depression in nucleonic densities using the self-consistent mean field models**

Yüksel E.

The Turkish Physical Society 37th International Physics Congress (TPS-37), Muğla, Turkey, 1 - 05 September 2021, pp.1

V. **Gamow-Teller resonances and beta decay half-lives of nuclei at finite temperature**

Yüksel E.

XIV. International Conference on Nuclear Structure Properties, NSP2021, Konya, Turkey, 2 - 04 June 2021, pp.57

VI. **The implementation of the nuclear excitation properties in the optimization of the relativistic energy density functionals**

Yüksel E., Marketin T., Paar N.

Turkish Physical Society 35th International Physics Congress, Muğla, Turkey, 4 - 08 September 2019, pp.1

VII. **The implementation of electric dipole transition strength in constraining the relativistic energy**

density functional

Paar N., YÜKSEL E., Marketin T.

7th Workshop on Nuclear Level Density and Gamma Strength, Oslo, Norway, 27 May 2019, pp.28

- VIII. **The effect of the temperature on the Gamow-Teller excitations in nuclei**
YÜKSEL E., PAAR N., NIU Y.
The Nuclear Physics Conference-EUNPC2018, Bologna, Italy, 03 September 2018
- IX. **Gamow-Teller excitations in open-shell nuclei at finite temperatures**
YÜKSEL E., Paar N., Niu Y.
Zakopane Conference on Nuclear Physics, Zakopane, Poland, 26 August 2018, pp.112
- X. **Exploring the magicity for the ^{78}Ni nucleus**
OK F., Guven H. Z., BOZKURT K., YÜKSEL E.
Theoretical and Experimental Studies in Nuclear Applications and Technology-TESNAT 2018, Antalya, Turkey, 20 April 2018
- XI. **Detailed investigation of the tensor force on the evaluation of magicity for the Si isotopes, $N=20$ and $N=28$ isotones with Skyrme-Hartree-Fock-Bogoliubov calculations**
GÜVEN H. Z., OK F., YÜKSEL E., BOZKURT K.
Theoretical and Experimental Studies in Nuclear Applications and Technology, TESNAT 2017, Adana, Turkey, 10 May 2017, pp.46
- XII. **Nötron zengini çekirdeklerde nükleer sihirli sayıların değişimi**
YÜKSEL E.
İstanbul Yüksek Enerji Fizik Çalıştayı YEFİST2017, İstanbul, Turkey, 06 May 2017, pp.1
- XIII. **Effect of the temperature on the dipole and quadrupole excitations in nuclei**
YÜKSEL E., COLO G., KHAN E., Yifei N., BOZKURT K.
XXIII Nuclear Physics Workshop, 27 September - 02 October 2016
- XIV. **Theoretical study on the properties of $Z=20$ and $Z=48$ isotopic chains**
Ok F., Yüksel E., Bozkurt K.
Turkish Physical Society 32nd International Physics Congress, Muğla, Turkey, 6 - 09 September 2016
- XV. **Exploration of magicity for $Z=120$ isotopes using the Skyrme Hartree Fock Bogoliubov Approximation**
Güven H. Z., Bozkurt K., Yüksel E.
Turkish Physical Society 32nd International Physics Congress, Muğla, Turkey, 6 - 09 September 2016
- XVI. **Evolution of multipole response in nuclei at finite temperature Collective Motion in Nuclei under Extreme Conditions**
YÜKSEL E., Elias K., Gianluca C., BOZKURT K.
Collective Motion in Nuclei under Extreme Conditions, COMEX-5, Krakow, Poland, 13 - 15 September 2015
- XVII. **Low energy modes in Atomic nuclei**
YÜKSEL E., Elias K., BOZKURT K.
VII. International Workshop on Nuclear Structure Properties, Sinop, Turkey, 29 - 31 October 2014
- XVIII. **Tensor and Temperature effects on the nuclear properties**
YÜKSEL E., Khan E., BOZKURT K., Van Giai N., Colo G.
NUBA Conference Series-1 Nuclear Physics and Astrophysics, Antalya, Turkey, 14 - 21 September 2014
- XIX. **Investigation of the neutron skin thickness via low-energy modes of nuclei**
Bozkurt K., Yüksel E.
International Advances in Applied Physics and Materials Science Congress (APMAS), Muğla, Turkey, 24 - 27 April 2014, pp.1
- XX. **Pairing properties of hot nuclei within the finite temperature Hartree Fock plus BCS approximation**
YÜKSEL E., Khan E., BOZKURT K.
20th International School on Nuclear Physics, Neutron Physics and Applications, Varna, Bulgaria, 16 - 22 September 2013, vol.533
- XXI. **Effect of tensor interaction on the ground state properties of light medium and heavy nuclei**
Gök Ç., YÜKSEL E., BOZKURT K.

XX International School on Nuclear Physics, Neutron Physics and Applications. Varna-Bulgaristan., 15 - 20 September 2013

XXII. Investigation of tensor correlations on the single particle properties of heavy nuclei

YÜKSEL E., BOZKURT K.

APMAS (International Advances in Applied Physics and Materials Science Congress). Antalya., Antalya, Turkey, 21 - 25 April 2013

XXIII. Investigation of Bubble nuclei

YÜKSEL E., BOZKURT K.

APMAS (International Advances in Applied Physics and Materials Science Congress). Antalya., Antalya, Turkey, 21 - 25 April 2013

XXIV. Tensor Effects in Dipole Excitations at Finite Temperature

YÜKSEL E., BOZKURT K.

APMAS 2012, İstanbul, Turkey, 26 - 29 April 2012

XXV. Low Energy strength in Calcium Isotopes

YÜKSEL E., BOZKURT K.

COMEX-4 (Collective Motion in Nuclei under Extreme Conditions), Kanagawa, JAPONYA., 27 October 2012 - 30 September 2011

XXVI. Isovector Pygmy dipole strength in ^{68}Ni

YÜKSEL E., BOZKURT K.

Turkish Physical Society 28th International Physics Congress, 5 - 09 September 2011

XXVII. Investigation of tensor effects on the pygmy dipole resonance of neutron rich nuclei

Yüksel E., Bozkurt K.

Turkish Physical Society 28th International Physics Congress., Muğla, Turkey, 1 - 03 September 2011

XXVIII. Pygmy Dipole Resonance in neutron rich nuclei with Skyrme and Gogny interactions

YÜKSEL E., BOZKURT K.

Turkish Physical Society 27th International Physics Congress, 1 - 05 September 2010

Supported Projects

- I. YÜKSEL E., Project Supported by Higher Education Institutions, Sıcaklığın nükleer yapı üzerindeki etkisinin incelenmesi, 2021 - 2021
- II. YÜKSEL E., EU Supported Other Project, CENTER OF EXCELLENCE FOR THE THEORY OF QUANTUM AND COMPLEX SYSTEMS AND LIE ALGEBRA REPRESENTATION, 2018 - 2018
- III. YÜKSEL E., Other International Funding Programs, "Structure and Dynamics of Exotic Femto Systems (STRUDEF)", supported by Croatian Science Foundation, 2017 - 2018
- IV. BOZKURT K., YÜKSEL E., Project Supported by Higher Education Institutions, Nötron Bakımından Zengin Çekirdeklerde Nükleer Kollektif Modların QRPA Yöntemi ile İncelenmesi, 2014 - 2016

Scientific Refereeing

- I. NUCLEAR PHYSICS A, Journal Indexed in SCI-E, September 2021
- II. INDIAN JOURNAL OF PHYSICS, Journal Indexed in SCI-E, March 2018

Tasks In Event Organizations

- I. Yüksel E., İstanbul Yüksek Enerji Fiziği Çalıştayı YEFİST-2016, Workshop Organization, İstanbul, Turkey, Mayıs 2017

- II. Yüksel E., Bozkurt K., Ayarçı Kuruoğlu N., Workshop on Nuclear Structure, Astrophysics and Reactions, Scientific Congress, İstanbul, Turkey, Mayıs 2014

Metrics

Publication: 47
Citation (WoS): 158
Citation (Scopus): 161
H-Index (WoS): 8
H-Index (Scopus): 8

Scholarships

- I. 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, TÜBİTAK, 2018 - 2018
- II. Postdoctoral Scholarship, Official Institutions of Foreign Countries, 2017 - 2018
- III. 2211-A Genel Yurt İçi Doktora Burs Programı, TÜBİTAK, 2011 - 2016
- IV. Yurt Dışı Doktora Araştırma Bursu, YOK, 2014 - 2014
- V. 2210-A Genel Yurt İçi Yüksek Lisans Burs Programı, TÜBİTAK, 2009 - 2011

Coaching Duties

Refereeing Duties
