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International Researcher IDs

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

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Education

- 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 Positions

- 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)

Papers Presented at Peer-Reviewed Scientific Conferences

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, (Unpublished)

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, (Summary Text)

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, (Summary Text)

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., GÜVEN 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. **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
- XV. **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, (Summary Text)
- 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, (Summary Text)
- 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, (Summary Text)
- 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, (Summary Text)
- 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, (Summary Text)

Funded 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

Peer Reviews in Scientific Publications

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

Roles 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): 166
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
