

Prof. Kutsal BOZKURT

Personal Information

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Biography

Kutsal Bozkurt currently works at the Department of Physics, Yildiz Technical University. He is also a researcher at the Université Paris Saclay, IJCLab, Theoretical Nuclear Physics. He has active two mainly working groups. In the field of nuclear physics; He works on the investigation of the structure of neutron stars (Mean field theory, hypernuclei structure, Nuclear matter, multimessenger inference for the gravitational waves). In the field of applied physics; He works on Photovoltaic/Betavoltaic Hybrid battery technology (Betavoltaic energy converter and battery technology) and also works on charge transport in BB12&Infantis.

Education Information

Doctorate, Middle East Technical University, Faculty Of Arts And Sciences, Fizik, Turkey 1999 - 2003

Postgraduate, Middle East Technical University, Faculty Of Arts And Sciences, Fizik, Turkey 1996 - 1999

Undergraduate, Middle East Technical University, Faculty Of Arts And Sciences, Fizik, Turkey 1990 - 1996

Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Nuclear physics, Properties of Nuclei, Nuclear Structure, Natural Sciences

Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2019 - Continues

Professor, Université Paris-Sud: Paris XI, Université Paris-Saclay, CNRS/IN2P3, IJCLab, 2010 - Continues

Associate Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2012 - 2019

Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2005 - 2012

Lecturer PhD, Universitaet Siegen, Detektorphysik Und Elektronik, Physik, 2003 - 2004

Research Assistant, Middle East Technical University, Faculty Of Arts And Sciences, Fizik, 2000 - 2003

Research Assistant, Middle East Technical University, Faculty Of Engineering, Çevre Müh., 1997 - 2000

Academic and Administrative Experience

Erasmus Coordinator, Yildiz Technical University, Faculty Of Arts & Science, Fizik, 2008 - 2020

Yıldız Teknik Üniversitesi, Faculty of Arts & Science, Fizik, 2010 - 2015

Yıldız Teknik Üniversitesi, Fizik, 2006 - 2015

Courses

Quantum Physics-1, Undergraduate, 2020 - 2021

QUANTUM MECHANICS II, Doctorate, 2020 - 2021

Quantum Physics 1, Undergraduate, 2019 - 2020

Nuclear Theory 1, Postgraduate, 2018 - 2019

Quantum Physics 2, Undergraduate, 2018 - 2019, 2017 - 2018

Technical English 1, Undergraduate, 2018 - 2019, 2017 - 2018

Quantum Mechanics 1, Postgraduate, 2018 - 2019

Physics 1, Undergraduate, 2017 - 2018

Physics 2, Undergraduate, 2017 - 2018

Advising Theses

Bozkurt K., Nötron Yıldızı Gözlemlenebilirlerinin Kütle-Çekim Dalgaları Kullanılarak İncelenmesi, Postgraduate, O.Fırat(Student), Continues

Bozkurt K., Ankaş A., Galaksimizdeki Serbest Elektron Dağılımı, Nötron Yıldızlarının Uzaklıkları ve Manyetik Alanları, Doctorate, P.Kütükçü(Student), Continues

Bozkurt K., Khan E., Nuclear Physics in Neutron Stars: Study of Superfluidity in Hypernuclei and Constraining the Nuclear-Cotutelle (Çift Diploma Programı), Doctorate, H.Zahid(Student), 2020

Bozkurt K., Khan E., Nuclear Physics in Neutron Stars: Study of Superfluidity in Hypernuclei and Constraining the Nuclear, Doctorate, H.Zahid(Student), 2020

Bozkurt K., Ortalama Alan Teorisi ile Hiperçekirdeklerin Temel Durum ve Uyarılmış Durumlarının İncelenmesi, Postgraduate, E.Akpınar(Student), 2020

Bozkurt K., Hartree-Fock-Bogoliubov Yöntemi ile egzotik çekirdeklerde Sihirliliğin İncelenmesi, Postgraduate, F.Ok(Student), 2018

Bozkurt K., Özdemir O., Metal-Organik Kimyasal Buharlaştırma Tekniği ile Büyütülmüş Uzun Dalgaboylu Lazer Yapıların Elektriksel Özelliklerinin İncelenmesi, Doctorate, N.Ayarcı(Student), 2017

Bozkurt K., Khan E., Mean Field Description of Finite Nuclei Under Extreme Conditions of Isospin and Temperature, Doctorate, E.Yüksel(Student), 2015

BOZKURT K., AKÇALI Ö., Çevre Örneklerinde Nötron Aktivasyon Yöntemi ile Eser Ağır Metal Ölçümleri, Postgraduate, D.Soya(Student), 2014

BOZKURT K., Hafif, orta ve ağır çekirdeklerde spin-yörünge yarılmalarının ve proton enerji aralıklarının tensör katkısı ile değişiminin incelenmesi, Postgraduate, Ç.Gök(Student), 2014

BOZKURT K., Nötron bakımından zengin atom çekirdeklerinde dev çoklu rezonansların incelenmesi, Postgraduate, E.Çınar(Student), 2013

BOZKURT K., İzole nötron yıldızlarının T-tSNR yas uyumsuzluğu problemine bağlı evrimi, Postgraduate, P.Kütükçü(Student), 2012

Bozkurt K., Nötron bakımından zengin hafif ve ağır atom çekirdeklerinde skyrme etkilesmesini kullanarak cüce dipol rezonansların incelenmesi, Postgraduate, E.Yüksel(Student), 2011

Bozkurt K., Landau parametrelerinin nükleer madde ve nötron madde için hesaplanması, Postgraduate, S.Boy(Student), 2010

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Effects of finite temperature and pairing correlations in multi- Λ hypernuclei**
Suleymanli B., Bozkurt K., Khan E., Güven H., Margueron J.
PHYSICAL REVIEW C - NUCLEAR PHYSICS, vol.110, no.1, pp.1-10, 2024 (SCI-Expanded)
- II. **Characteristics of compact stars determined by gravitational waves, radio-astronomy, x-ray emission, and nuclear physics**
Güven H., Margueron J., Bozkurt K., Khan E.
PHYSICAL REVIEW C - NUCLEAR PHYSICS, vol.108, no.3, pp.1-10, 2023 (SCI-Expanded)
- III. **Relation between thermal quenching of photoluminescence and negative capacitance on InGaN/GaN multiple quantum wells in p-i-n structure**
Özdemir O., Baş H., Ayarçı Kuruoğlu N., Bozkurt K., Aydın M., Sarcan F., Erol A., Alshehri B., Dogheche K., Dogheche E.
Journal of Luminescence, vol.257, 2023 (SCI-Expanded)
- IV. **Determination of band tail widths in MOCVD grown InGaN single layer within GaN based p-i-n LED structure through photo-induced measurements**
Özdemir O., Bozkurt K., Ayarçı Kuruoğlu N., Baş H., Sarcan F., Erol A., Alshehri B., Dogheche K., Dogheche E.
JOURNAL OF LUMINESCENCE, vol.255, pp.119543, 2023 (SCI-Expanded)
- V. **Investigation of luminescence centers inside InGaN/GaN multiple quantum well over a wide range of temperature and injection currents**
Ayarçı Kuruoğlu N., Özdemir O., Bozkurt K., Baş H., Alshehri B., Dogheche K., Dogheche E.
JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, vol.00, no.00, 2022 (SCI-Expanded)
- VI. **Development and characterization of sodium alginate/bifidobacterium probiotic biohybrid material used in tissue engineering**
Denktas C., Baysoy D. Y., Bozdoğan A., Bozkurt H. S., Bozkurt K., Özdemir O., Yılmaz M.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.139, no.18, 2022 (SCI-Expanded)
- VII. **Distances of galactic radio pulsars; first quadrant: $-20^{\circ} \leq \delta < 90^{\circ}$ and $-20^{\circ} < \delta < 20^{\circ}$**
Kütükçü P., Ankaş A., Yazgan E., Bozkurt K.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.511, pp.1-21, 2022 (SCI-Expanded)
- VIII. **Biodegradation of microplastic by probiotic bifidobacterium**
Bozkurt H. S., CİVELEK YÖRÜKLÜ H., BOZKURT K., Denktas C., BOZDOĞAN A., ÖZDEMİR O., ÖZKAYA B.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.26, no.4, pp.429-443, 2022 (SCI-Expanded)
- IX. **Ground state properties of charmed hypernuclei within a mean field approach**
Güven H., Bozkurt K., Khan E., Margueron J.
Physical Review C, vol.104, no.6, 2021 (SCI-Expanded)
- X. **Enhancement of Ni-63 planar source efficiency for betavoltaic batteries**
Belghachi A., Bozkurt K., Özdemir O., Avcı Ö.
Journal Of Physics D-Applied Physics, vol.445501, no.53, pp.1-10, 2020 (SCI-Expanded)
- XI. **Multimessenger and multiphysics Bayesian inference for the GW170817 binary neutron star merger**
Güven H., BOZKURT K., Khan E., Margueron J.
PHYSICAL REVIEW C, vol.102, no.1, 2020 (SCI-Expanded)
- XII. **A model for Ni-63 source for betavoltaic application**
Belghachi A., Bozkurt K., Moughli H., Özdemir O., Amiri B., Talhi A.
Acta Physica Polonica A, vol.137, no.3, pp.324-331, 2020 (SCI-Expanded)
- XIII. **Transport and storage dynamics of 30% In-rich InGaN/GaN MQW LED p-i-n structure**
Özdemir O., Bozkurt K., Kuruoğlu N., Baş H., Alshehri B., Dogheche K., Gamard Q., Ramdane A., Dogheche E.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.52, 2019 (SCI-Expanded)
- XIV. **Impact of trap states on inductive phenomena in 30% InGaN/GaN MQW LED devices**
BOZKURT K., ÖZDEMİR O., KURUOĞLU N., ALSHEHRI B., DOGHECHE K., Gaimard Q., Ramdane A., DOGHECHE E.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.52, no.10, 2019 (SCI-Expanded)
- XV. **Lambda Lambda pairing in multistrange hypernuclei**
Güven H., BOZKURT K., Khan E., Margueron J.

- PHYSICAL REVIEW C, vol.98, no.1, 2018 (SCI-Expanded)
- XVI. **Dc and ac electrical response of MOCVD grown GaN in p-i-n structure, assessed through I-V and admittance measurement**
Kuruoglu N., ÖZDEMİR O., BOZKURT K., Sundaram S., Salvestrini J., Ougazzaden A., Gaimard Q., BELAHSENE S., Merghem K., RAMDANE A.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.50, no.50, 2017 (SCI-Expanded)
- XVII. **Betavoltaic study of a GaN p-i-n structure grown by metal-organic vapour phase epitaxy with a Ni-63 source**
Kuruoglu N., ÖZDEMİR O., BOZKURT K.
THIN SOLID FILMS, vol.636, pp.746-750, 2017 (SCI-Expanded)
- XVIII. **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)
- XIX. **Simultaneous Determination of Electron and Hole Mobilities in InP/InGaAsP/InAs/InP Laser Heterostructure by Admittance Spectroscopy**
Kuruoglu N., ÖZDEMİR O., BOZKURT K., BELAHSENE S., MARTINEZ A., RAMDANE A.
IEEE TRANSACTIONS ON ELECTRON DEVICES, vol.64, no.7, pp.2881-2885, 2017 (SCI-Expanded)
- XX. **Discrimination of Carrier Conduction Mechanisms of InP/InGaAsP/InAs/InP Laser Structure Through J-V-T Measurements**
Ayarci N., ÖZDEMİR O., BOZKURT K., RAMDANE A., BELAHSENE S., MARTINEZ A.
IEEE TRANSACTIONS ON ELECTRON DEVICES, vol.63, no.5, pp.1866-1870, 2016 (SCI-Expanded)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **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)
- XXV. **Tensor Effects in Dipole Excitations at Finite Temperature**
Yüksel E., Bozkurt K.
ACTA PHYSICA POLONICA A, vol.123, pp.320-322, 2013 (SCI-Expanded)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **ISOVECTOR PYGMY DIPOLE EXCITATION IN NEUTRON-RICH NUCLEI**
BOZKURT K.
MODERN PHYSICS LETTERS A, vol.25, no.34, pp.2905-2913, 2010 (SCI-Expanded)
- XXIX. **Pygmy and Giant Dipole Response Function in Neutron Rich Nuclei at Finite Temperature**
BOZKURT K., Sirin M.
AIP Conference Proceeding, vol.1203, 2010 (SCI-Expanded)

- XXX. **PYGMY DIPOLE RESONANCE AND TWO NEUTRON SEPARATION ENERGIES IN SOFT AND HEAVY NUCLEI**
BOZKURT K.
INTERNATIONAL JOURNAL OF MODERN PHYSICS E-NUCLEAR PHYSICS, vol.19, no.7, pp.1371-1381, 2010 (SCI-Expanded)
- XXXI. **Dipole Response Function of Nuclear Matter with Pairing Correlations**
BOZKURT K.
JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN, vol.77, no.10, 2008 (SCI-Expanded)
- XXXII. **Isovector response of nuclear matter at finite temperature**
Ayik S., BOZKURT K., Gokalp A., YILMAZ O.
ACTA PHYSICA POLONICA B, vol.39, no.6, pp.1413-1427, 2008 (SCI-Expanded)
- XXXIII. **Isovector collective response function of nuclear matter at finite temperature**
Bozkurt K.
INTERNATIONAL JOURNAL OF MODERN PHYSICS E, vol.13, no.5, pp.949-959, 2004 (SCI-Expanded)
- XXXIV. **Collisional effects in isovector response function of nuclear matter at finite temperature**
Ayik S., Gokalp A., Yilmaz O., BOZKURT K.
ACTA PHYSICA POLONICA B, vol.34, no.8, pp.4229-4239, 2003 (SCI-Expanded)

Articles Published in Other Journals

- I. **Charge Transport in Bifidobacterium animalis subsp.lactis BB-12 under Various Atmospheres**
Bozkurt K., Denктаş C., Özdemir O., Altındal A., Avdan Z., Bozkurt H. S.
Open Journal of Applied Sciences, vol.9, pp.506-514, 2019 (Peer-Reviewed Journal)
- II. **Investigation of Carrier Conduction Mechanism over InAs/InP Quantum Dashes and InAs/GaAs Quantum Dots Based p-i-n Laser Heterostructures**
Ayarcı Kuruoğlu N., Özdemir O., Bozkurt K.
Journal of Materials Science and Chemical Engineering, pp.1-9, 2017 (Peer-Reviewed Journal)
- III. **Electroluminescence Study of InP/InGaAsP/InAs/InP p-i-n Laser Heterostructure**
BOZKURT K.
Sigma Journal of Engineering and Natural Sciences, vol.34, no.2, 2016 (ESCI)
- IV. **Isovector Giant Dipole Excitations in Hot Nuclear Matter**
ŞAHİN E., BOZKURT K.
Balkan Physics Letters, vol.1203, pp.11, 2009 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Free Electron Density in the Galaxy, Distances of Neutron Stars**
KÜTÜKÇÜ P., ANKAY A., BOZKURT K.
TURKISH PHYSICAL SOCIETY 36TH INTERNATIONAL PHYSICS CONGRESS, 1 - 05 September 2020
- II. **Charmed Nuclei with Mean Field Approach**
GÜVEN H. Z., BOZKURT K., KHAN E., MARGUERON J.
Turkish Physical Society 36th International Physics Congress (TPS-36), 1 - 05 September 2020
- III. **Constraining the Nuclear Equation of State by Tidal Deformability:Correlations between the Empirical Parameters**
BOZKURT K., GÜVEN H. Z., KHAN E., MARGUERON J.
Turkish Physical Society 35th International Physics Congress, 4 - 08 September 2019
- IV. **A Mathematical Model of Ni-63 Source for Betavoltaic Applications**
BOZKURT K., BELGHACHI A., MOUGHLI H., ÖZDEMİR O., AMIRI B., TALHI A.
Turkish Physical Society 35th International Physics Congress, 4 - 08 September 2019

- V. **Effect of Bulk Trap in GaN Barrier Layer on the Electroluminescence Spectral Properties of InGaN/GaN Multiple Quantum Well LED Device**
 ÖZDEMİR O., BOZKURT K., AYARCI N., BAŞ H., ALSHEHRI B., DOGHECHE K., GAIMARD Q., RAMDANE A., DOGHECHE E.
 Turkish Physical Society 35th International Physics Congress, 4 - 08 September 2019
- VI. **The Ground State properties of Multi-Strange Hypernuclei within the Hartree-Fock Method**
 AKPINAR E., GÜVEN H. Z., BOZKURT K.
 Turkish Physical Society 35th International Physics Congress, 4 - 08 September 2019
- VII. **ELECTROLUMINESCENCE (EL) STUDY OF 10 INGAN/GAN MQW LED DEVICES**
 BAŞ H., ÖZDEMİR O., AYARCI N., BOZKURT K., ALSHEHRI B., DOGHECHE K., GAIMARD Q., RAMDANE A., DOGHECHE E.
 Turkish Physical Society 35th International Physics Congress, 4 - 08 September 2019
- VIII. **Constraining the Nuclear Equation of State by Tidal Deformability: Empirical Parameters**
 GÜVEN H. Z., BOZKURT K., KHAN E., MARGUERON J.
 Turkish Physical Society 35th International Physics Congress, 4 - 08 September 2019
- IX. **Electro-Optical Analysis of 30 InGaN/GaN MQW LED Devices**
 BOZKURT K., ÖZDEMİR O., AYARCI N., ALSHEHRI B., DOGHECHE K., GAIMARD Q., RAMDANE A., DOGHECHE E.
 10th International Conference on Materials for Advanced Technologies (ICMAT-2019), 23 - 28 June 2019
- X. **Determination of Conduction Path in InGaN/GaN MQW LED by Current-Voltage and Admittance Measurements**
 ÖZDEMİR O., AYARCI KURUOĞLU N., BOZKURT K., BAŞ H., ALSHEHRI B., DOGHECHE K., GAIMARD Q., RAMDANE A., DOGHECHE E.
 Turkish Physical Society 34.th International Physics Congress, Muğla, Turkey, 05 September 2018
- XI. **Pairing Correlations in Multi-Strange Hypernuclei with the Hartree-Fock-Bogoliubov (HFB) Method**
 BOZKURT K., Zahid Güven H., Khan E., Margueron J.
 Turkish Physical Society 34th International Physics Congress, Muğla, Turkey, 04 September 2018, pp.532
- XII. **Gravitational Wave Constrictions to the Nuclear Equation of State**
 Zahid Güven H., BOZKURT K., Khan E., Margueron J.
 Turkish Physical Society 34th International Physics Congress, Muğla, Turkey, 04 September 2018, pp.60
- XIII. **Light Emission Bands of InGaN/GaN MQW based LED in P-I-N Structures**
 BAŞ H., ÖZDEMİR O., AYARCI KURUOĞLU N., BOZKURT K., ALSHEHRI B., DOGHECHE K., GAIMARD Q., RAMDANE A., DOGHECHE E.
 Turkish Physical Society 34.th International Physics Congress, Muğla, Turkey, 05 September 2018
- XIV. **Simultaneous Determination of Electron and Hole Mobility in InGaN/GaN Multi Quantum Well LED Through AC Admittance Spectroscopy**
 AYARCI KURUOĞLU N., ÖZDEMİR O., BOZKURT K., ALSHEHRI B., DOGHECHE K., GAIMARD Q., RAMDANE A., DOGHECHE E.
 Turkish Physical Society 34.th International Physics Congress, Muğla, Turkey, 05 September 2018
- XV. **Luminescence Properties of In-Rich InGaN/GaN Multiple Quantum Wells Light Emitting Diodes**
 BOZKURT K., ÖZDEMİR O., AYARCI KURUOĞLU N., ALSHEHRI B., DOGHECHE K., GAIMARD Q., RAMDANE A., DOGHECHE E.
 Turkish Physical Society 34.th International Physics Congress, Muğla, Turkey, 05 September 2018
- XVI. **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
- XVII. **Investigation of Magicity for Z=16 Isotopes and N=12 Isotones with Skyrme-Hartree-Fock-Bogoliubov Approach**
 OK F., GUVEN H. Z., BOZKURT K.
 Türk Fizik Derneği 33. Uluslararası Fizik Kongresi, 6 - 10 September 2017
- XVIII. **Effect of Ni-63 Radiations on MBE Grown GaN in p-i-n Structure by Admittance Spectroscopy**

- BOZKURT K., AYARCI KURUOĞLU N., ÖZDEMİR O., Belahsene S., Martinez A., Ramdane A.
XL BRAZILIAN MEETING ON NUCLEAR PHYSICS, Sao Paulo, Brazil, 03 September 2017, pp.1
- XXIX. **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
- XX. **Lamda-Lamda Çiftlenim Etkileşimi ile Lamda Hiper Çekirdeklerinin Skyrme Ortalama Alan Hesaplamaları**
BOZKURT K.
İSTANBUL YÜKSEK ENERJİ FİZİĞİ ÇALIŞTAYI 2017, İstanbul, Turkey, 6 - 07 May 2017
- XXI. **MBE Tekniği ile Büyütülmüş p i n GaN Yapıdaki Ni 63 Radyasyon Etkisinin Empedans Spektroskopisiyle İncelenmesi**
BOZKURT K., AYARCI N., ÖZDEMİR O.
XI. Ulusal Nükleer Bilimler ve Teknolojileri Kongresi., Turkey, 12 - 14 October 2016
- XXII. **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
- XXIII. **Betavoltaic study on GaN p-i-n diode with Ni-63 source**
AYARCI KURUOĞLU N., ÖZDEMİR O., BOZKURT K., Ramdane A., Belahsene S., Martinez A.
Science and Applications of Thin Films, Congress & Exhibition - SATF 2016, İzmir, Turkey, 19 September 2016
- XXIV. **Theoretical Study on the Properties of Z 20 and Z 48 Isotopic Chain**
OK F., YÜKSEL E., BOZKURT K.
Türk Fizik Derneği 32. Uluslararası Fizik Kongresi, 6 - 09 September 2016
- XXV. **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
- XXVI. **Exploration of magicity for Z=120 isotopes using the Skyrme Hartree Fock Bogoulibov Approximation**
Güven H. Z., Bozkurt K., Yüksel E.
Turkish Physical Society 32nd International Physics Congress, Muğla, Turkey, 6 - 09 September 2016
- XXVII. **Electroluminescence study of MBE (Molecular Beam Epitaxy) grown InP/InGaN/InAs/InP p-i-n laser heterostructure**
BOZKURT K., AYARCI KURUOĞLU N., ÖZDEMİR O.
Turkish Physical Society 32nd International Physics Congress, Muğla, Turkey, 06 September 2016
- XXVIII. **Negative capacitance in InP/InGaAsP/InP quantum dashes assessed through dc and ac electrical measurements.**
AYARCI KURUOĞLU N., ÖZDEMİR O., BOZKURT K.
Turkish Physical Society 32nd International Physics Congress, Muğla, Turkey, 06 September 2016
- XXIX. **Exploration of magicity for Z=120 isotopes using the Skyrme Hartree Fock Bogoulibov Approximation**
Yüksel E., BOZKURT K.
Turkish Physical Society 32nd International Physics Congress, 01 September 2016
- XXX. **Theoretical study on the properties of Z=20 and Z=48 isotopic chains**
Yüksel E., BOZKURT K.
Turkish Physical Society 32nd International Physics Congress, 01 September 2016
- XXXI. **Transport Mechanisms of InAs/InP Quantum Dashes and InAs/GaAs Quantum Dots Based p-i-n Laser Heterostructure**
AYARCI KURUOĞLU N., ÖZDEMİR O., BOZKURT K.
2 nd International Conference on Organic Electronic Material Technologies (OEMT2016), Çanakkale, Turkey, 16 May 2016

- XXXII. **Photo-voltaic Properties and Carrier Conduction Mechanisms of InP/InGaAsP/InP Quantum Well Through J-V-T Measurements**
AYARCI KURUOĞLU N., ÖZDEMİR O., BOZKURT K., Ramdane A., Belahsene S., Martinez A.
SOLAR-TR3, Ankara, Turkey, 27 April 2016
- XXXIII. **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
- XXXIV. **Evolution of multipole response in nuclei at finite temperature**
Khan E., Colo G., BOZKURT K.
Collective Motion in Nuclei under Extreme Conditions (COMEX5), 01 September 2015
- XXXV. **Betavoltaic Study on GaN p-i-n Diode**
Özdemir O., BOZKURT K., Ramdane A., Belahsene S., Martinez A.
XXI International School on Nuclear Physics, Neutron Physics and Applications, 01 September 2015
- XXXVI. **Low energy modes in Atomic nuclei**
YÜKSEL E., Elias K., BOZKURT K.
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XX International School on Nuclear Physics, Neutron Physics and Applications, 01 September 2013
- XLIV. **Investigation of Bubble nuclei**
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- XLV. **Investigation of tensor correlations on the single particle properties of heavy nuclei**
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APMAS (International Advances in Applied Physics and Materials Science Congress). Antalya., Antalya, Turkey, 21 - 25 April 2013
- XLVI. **Investigation of Potential to Produce Electricity from Commercial Solar Cell Through Beta Particles**
AYARCI KURUOĞLU N., BOZKURT K., ÖZDEMİR O., MENDA U. D., AKÇALI Ö., KUTLU K.

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- XLVII. **Nuclear Battery: Betavoltaic Power Source and Applications**
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- LI. **Isvector Pygmy dipole strength in ^{68}Ni**
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- LII. **Investigation of tensor effects on the pygmy dipole resonance of neutron rich nuclei**
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- LIV. **Relationship Between Earthquake and Ionospheric TEC**
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- LV. **Investigation of Electrical Transport in PECVD grown a SiCx H Thin Film**
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- LVI. **Pygmy Dipole Resonance in neutron rich nuclei with Skyrme and Gogny interactions**
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- LVII. **Dipole Response Function of Nuclear Matter with and without Pairing Correlations**
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- LVIII. **Pygmy and Giant Dipole Response Function in Neutron Rich Nuclei at Finite Temperature**
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The 7th General Conference of the Balkan Physical Union Alexandroupolis 9 - 13 September 2009, Alexandroupoli, Greece, 8 - 14 September 2009
- LIX. **Giant dipole response function at finite temperature**
GÖKALP A., BOZKURT K., YILMAZ O.
17. Physics Education, Second International Balkan School on Nuclear Physics, 4 - 08 September 2000
- LX. **Giant dipole response function at finite temperatures**
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- LXI. **Investigation of interactions of GPS Signals with Ionosphere in Marmara Region**
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Supported Projects

- BOZKURT K., EREN T., AY H., DENKTAŞ C., VARLI MA H. S., Project Supported by Higher Education Institutions, Antarktika Horseshoe Adasından izole edilen yeni Aktinobakteri türleri ile farklı konsantrasyonlarda Bifidobakterileri kullanarak elde edilecek polimer tabanlı biyofilmlerin üretilmesi karakterizasyonu ve biyobozunurluğu, 2024 - Continues
- KARASU UYSAL A., YETKİN T., BOZKURT K., İŞILDAK B., SUNAR ÇERÇİ D., YALÇIN KUZU S., Project Supported by Higher Education Institutions, Özgün Yapay Zeka Uygulamaları Geliştirilerek Yüksek Enerjili Proton Çarpışmalarında Oluşan Z Bozonu Kütle Değerinin Araştırılması, 2024 - Continues
- AY H., BOZKURT K., EREN T., Project Supported by Higher Education Institutions, Antarktika Horseshoe Adasından İzole Edilen Yeni Aktinobakteri Türlerinin Plastik Degradasyon Kapasitelerinin Araştırılması, 2023 - Continues
- Denktaş C., Bozkurt K., Özkaya B., Türkoğlu N., Kantürk Figen A., Development Agency, Recovery Test and Research Center (GETAM), 2023 - 2024
- Bozkurt K., TUBITAK Project, Kütle-Çekim Dalgaları Kullanılarak Nötron Yıldızı İç Çekirdek Yapısının İncelenmesi, 2022 - 2024
- Özçimen D., Bozkurt K., Özdemir O., Tatlıpınar H., TUBITAK Project, Küresel Isınma ve İklim Değişikliği Kapsamında Canlı Bilimleri ve Atmosfer Bilimleri Arasındaki İlişkinin Antarktika Özelinde Kurulması: Horseshoe Adası Bölgesindeki Atmosferik Koşullar ile Algler Gibi Çevre Koşullarına Duyarlı Mikroorganizmalar Arasındaki İlişkinin Analizi ve Modellenmesi, 2022 - 2024
- Bozkurt K., Hüdaverdi M., Altaş Puntar N., Ercan E. N., TUBITAK Project, Eliptik Galaksilerde Süpernova Kimyasal Element Sentezi İzlerinin Araştırılması, 2021 - 2024
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- Bozkurt K., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Geri Kazanım Test ve Araştırma Merkezi (GETAM), 2022 - 2023
- TÜRKOĞLU N., BOZKURT H. S., AKKAYA E., BOZKURT K., KANTÜRK FİGEN A., COŞKUNER FİLİZ B., VARLI H. S., SEL S., Project Supported by Higher Education Institutions, PROBİYOTİK İÇEREN NANOYAPILARIN GELİŞTİRİLMESİ VE UYGULAMA ALANLARININ ARAŞTIRILMASI, 2021 - 2023
- AYARCI KURUOĞLU N., baş h., ÖZDEMİR O., BOZKURT K., Project Supported by Higher Education Institutions, Tek tabaka ve çoklu kuantum kuyudan oluşan 10 In katkılı InxGa1xNGaN LED yapıların elektronik optoelektronik özelliklerinin karşılaştırılması, 2021 - 2023
- BOZKURT K., SANCAR BOZKURT H., ÖZDEMİR O., Project Supported by Higher Education Institutions, Bifidobakterilerde Elektro-Optik, Algılama ve Diğer Fiziksel Aktivitelerinin İncelenmesi ve Uygulama Alanları, 2021 - 2023
- YAĞCI Ö., ÖZDEMİR O. K., ÖZDEMİR O., BOZKURT K., Project Supported by Higher Education Institutions, Borik Asit Katkılanmış Cu3SbS3 Tabakasının Silikon Tabanlı Fotovoltaik Hücrelerde Kullanılması, 2021 - 2023
- BOZKURT K., ÖZTÜRK O. F., GÜVEN H. Z., YAZICI D., Project Supported by Higher Education Institutions, Nötron Yıldızı Çekirdeğinde Kuark Madde Faz Geçişlerinin İncelenmesi, 2021 - 2023
- BALKANLI D., ÇELEBİ U. B., SARI ERKAN H., BOZKURT K., BİLGİLİ M. S., AYAT AYDOĞAN B., CİVELEK YÖRÜKLÜ H., DEMİR Ö., VARDAR N., Project Supported by Higher Education Institutions, Marmara Denizinde Ortaya Çıkan Müsilaj İçeriğinin Örneklenmesi Karakterizasyonu ve Tanımlanması ile Geniş Perspektifli Çözüm Üretmek İçin Üniversite Araştırma Altyapısının Değerlendirilmesi, 2021 - 2021
- Bozkurt K., TUBITAK Project, Ortalama Alan Teorisi ile Hiperçekirdeklerin ve Süperçekirdeklerin Yapısının İncelenmesi, 2018 - 2020
- AYARCI KURUOĞLU N., ÖZDEMİR O., BOZKURT K., Project Supported by Higher Education Institutions, %30 In katkılı InxGa1xN/GaN çoklu kuantum kuyuların optoelektronik özelliklerinin incelenmesi, 2018 - 2019
- Bozkurt K., Khan E., Güven H. Z., Other International Funding Programs, Investigation of the Structure of Neutron Star and Hypernuclei, 2018 - 2019
- Yetkin T., Bozkurt K., Durusoy A., Akçalı Ö., Erduran M. N., Özok F., Zengin A. T., Akbeniz Ş., TUBITAK Project, Gama Kamerası Modernizasyonu İçin Yöntem Geliştirilmesi ve Deneysel Uygulaması, 2017 - 2019
- BOZKURT K., AYARCI KURUOĞLU N., Project Supported by Higher Education Institutions, Metal-organik kimyasal buharlaştırma tekniği ile büyütülmüş uzun dalga boylu lazer yapıların elektriksel özelliklerinin incelenmesi, 2015 - 2018

BOZKURT K., Project Supported by Higher Education Institutions, Radyasyonun Güneş Pilleri Üzerindeki Etkisinin İncelenmesi ve Nükleer Piller, 2015 - 2018

Bozkurt K., Khan E., TUBITAK Project, Nükleer Uyarılmaların Farklı İzospin ve Sıcaklık Koşulları Altında Çalışılması, 2015 - 2017

BOZKURT K., YÜKSEL E., Project Supported by Higher Education Institutions, Nötron Bakımından Zengin Çekirdeklere Nükleer Kollektif Modların QRPA Yöntemi ile İncelenmesi, 2014 - 2016

BOZKURT K., Project Supported by Higher Education Institutions, Çevre Örneklerinde Nötron Aktivasyon Yöntemi İle Eser Ağır Metal Ölçümleri, 2012 - 2014

BOZKURT K., Project Supported by Other Official Institutions, CERN-Büyük Hadron Çarpıştırıcısı (LHC) Deneylerinden Alice de 14TeV Kütle Merkezi Enerjili Proton-Proton Çarpışmalarında Acayip Parçacık Üretiminin İncelenmesi, 2008 - 2010

Can Z., Bozkurt K., Oğuz O., Gülal V. E., Gümrükçü O., Aslan Z., Bozkurt D., Akı F. N., Elçin B., Project Supported by Higher Education Institutions, Konum Belirlenmesinde Önemli Bir Rol Oynayan GPS Sinyallerinin İyonosferle Etkileşimi, 2007 - 2009

Bozkurt K., Giai N. V., Other International Funding Programs, Quasiparticle Random Phase Approximation (QRPA) in Coordinate Space, Institut de Physique Nucleaire-Paris SUD XI, FRANSA, 2007 - 2008

Bozkurt K., Walenta A. H., Other International Funding Programs, Angiography, Universitat Siegen, ALMANYA, 2003 - 2004

Scientific Refereeing

Turkish Journal of Electrical Engineering and Computer Sciences, SCI Journal, September 2017

Turkish Journal of Physics, Other Indexed Journal, May 2017

IOP , Other Indexed Journal, September 2016

Chinese Physics Letters, SCI Journal, April 2011

Tasks In Event Organizations

Bozkurt K., Akkuş B., TFD 33. Uluslararası Fizik Kongresi, Scientific Congress, Turkey, Eylül 2017

Bozkurt K., Yetkin T., YEFIST 2017, Scientific Congress, İstanbul, Turkey, Mayıs 2017

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

Bozkurt K., Yılmaz O., Advances in Heavy-Ion Physics, Scientific Congress, İstanbul, Turkey, Haziran 2012

Scientific Research / Working Group Memberships

Lmsm, Université Polytechnique Hauts-de-France, Fransa, <http://fedmecalille.univ-lille.fr/unites/institut-deelectronique-de-microelectronique-et-de-nanotechnologie-iemn-umr-8520>, 2016 - Continues

Centre For Nanoscience And Nanotechnology, Université Paris-Sud: Paris XI, Fransa, <https://www.c2n.universite-paris-saclay.fr/en/>, 2012 - Continues

Institut de Physique Nucleaire, Université Paris-Sud: Paris XI, Fransa, <https://ipnwww.in2p3.fr/Theory,64>, 2009 - Continues

Mobility Activity

Other, Scientific Research, Université Paris-Sud: Paris XI, France, 2019 - 2019

Post Doc, Post Doc, Université Paris-Sud: Paris XI, France, 2014 - 2014

Erasmus Programme, Lecturing, Universitaet Duisburg Essen, Germany, 2013 - 2013

Post Doc, Post Doc, Université Paris-Sud: Paris XI, France, 2007 - 2007

Post Doc, Post Doc, Universitaet Siegen, Germany, 2003 - 2004

Metrics

Publication: 101

Citation (WoS): 152

Citation (Scopus): 206

H-Index (WoS): 8

H-Index (Scopus): 8

Congress and Symposium Activities

Turkish Physical Society 35th International Physics Congress, Working Group, Muğla, Turkey, 2019

Turkish Physical Society 34th International Physics Congress, Attendee, Muğla, Turkey, 2018

XL Brazilian Meeting on Nuclear Physics, Attendee, São Paulo, Brazil, 2017

XL BRAZILIAN MEETING ON NUCLEAR PHYSICS, Invited Speaker, Sao-Paulo, Brazil, 2017

3rd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Attendee, Adana, Turkey, 2017

Turkish Physical Society 32th International Physics Congress, Attendee, Muğla, Turkey, 2016

XXI International School on Nuclear Physics, Neutron Physics and Applications, Attendee, Varna, Bulgaria, 2015

SOLAR-TR3, Attendee, Ankara, Turkey, 2015

NUBA Conference Series-1 Nuclear Physics and Astrophysics, Attendee, Antalya, Turkey, 2014

VII. International Workshop on Nuclear Structure Properties, Attendee, Sinop, Turkey, 2014

Applied Physics and Material Science Congress APMAS-2014, Attendee, Antalya, Turkey, 2014

XX International School on Nuclear Physics, Neutron Physics and Applications, Attendee, Varna, Bulgaria, 2013

Applied Physics and Material Science Congress APMAS-2013, Attendee, Antalya, Turkey, 2013

Collective Motion in Nuclei under Extreme Conditions (COMEX4), Attendee, Tôkyô, Japan, 2012

Solar New Energy Conference SUNEC-2012, Attendee, Palermo, Italy, 2012

Applied Physics and Material Science Congress APMAS-2012, Attendee, Antalya, Turkey, 2012

Turkish Physical Society 28th International Physics Congress, Attendee, Muğla, Turkey, 2011

EGU General Assembly 2011, Attendee, Wien, Austria, 2011

Turkish Physical Society 27th International Physics Congress, Attendee, Muğla, Turkey, 2010

21st European Conference on Diamond, Diamond- Like Materials, Carbon Nanotubes, and Nitrides, Attendee, Budapest, Hungary, 2010

7th General Conference of the Balkan Physical Union, Attendee, Alexandroupoli, Greece, 2009

Collective Motion in Nuclei under Extreme Conditions (COMEX3), Attendee, Michigan, United States Of America, 2009

XXIX International Union of Radio Science, Attendee, Michigan, United States Of America, 2008

Theoretical Nuclear Physics School, Attendee, Lyon, France, 2007

Awards

Can Ömür B., BOZKURT K., Türk Fizik Derneği Onur Ödülü, Türk Fizik Derneği, September 2022

Non Academic Experience

Institut Delectronique de Microelectronique et de Nanotechnologie /Université Polytechnique Hauts-de-France
ICJLAB, CNRS, Universite Paris-SACLAY