

# Prof. Orhan İÇELLİ

## Personal Information

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## International Researcher IDs

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## Education Information

Doctorate, Ataturk University, Fen-Edebiyat Fakültesi, Fizik, Turkey 1998 - 2002

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, Turkey 1994 - 1998

Undergraduate, Ataturk University, Fen Fakültesi, Fizik, Turkey 1990 - 1994

## Certificates, Courses and Trainings

Quality Management, İç Denetçi, Yıldız Teknik Üniversitesi, 2015

## Dissertations

Doctorate, Bazı bileşikler ve kristallerde lineer diferansiyel saçılma katsayılarının dağılımının ölçülmesi ve etkin atom numarasına göre değişiminin incelenmesi, Ataturk University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, 2002

Postgraduate, 59.5 keV'de farklı elementler için koherent saçılma diferansiyel tesir kesitinin ölçülmesi, Ataturk University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, 1998

## Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Biophysics, Physics, Atomic and Molecular Physics, Atomic Spectra and Photon Interactions, Interdisciplinary Physics and Related Science and Technology Areas, Materials Science, Nuclear physics, Experimental Methods of Particle and Nuclear Physics, Natural Sciences

## Academic Titles / Tasks

Professor, Yildiz Technical University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2011 - Continues

Associate Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2006 - 2011

## Academic and Administrative Experience

Head of Department, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2017 - 2022

Head of Department, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2014 - 2017  
Rector's Advisor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2014 - 2017  
University Executive Board Member, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2013 - 2016  
Head of Department, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2014 - 2015  
Dean, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2014 - 2015  
Director of Vocational School, Yildiz Technical University, Technical Vocational School Of Higher Education, 2013 - 2014  
Rector's Advisor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2012 - 2014  
Vice Dean, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2011 - 2012  
Director of Vocational School, Erzincan Binali Yildirim University, Tercan Meslek Yüksekokulu, 2008 - 2011

## Supervised Theses

İçelli O., Tiroid Kanseri Teşhis ve Tedavi Süreçlerine Yapay Zeka ve Monte Carlo Simülasyonları İle Alternatif Yaklaşımlar, Doctorate, O.TOKER(Student), Continues  
İçelli O., MCNP Kodu İle Tıbbi Fizik Hesaplamaları, Doctorate, A.Hasan(Student), Continues  
İçelli O., Betavoltaik ve Fotovoltaik pil uygulamaların enerji verimi simülasyonu, Doctorate, K.Hışıroğlu(Student), Continues  
İçelli O., Görüntü ve Genomik Verileri Kullanılarak Yapay Zeka Destekli Kişiselleştirilmiş Radyoterapi Dozunun Belirlenmesi, Doctorate, M.Konuk(Student), Continues  
İçelli O., U-Net Mimarisi İle Beyin Tümörü MR Görüntüleri Segmentasyonu ve Hacminin Hesaplanması, Postgraduate, E.Altın(Student), Continues  
İçelli O., Monte Carlo Simülasyonlarıyla Çimentonun XRF Spektroskopisinde Kalitatif ve Kantitatif Analizi, Postgraduate, K.Yavaş(Student), Continues  
İçelli O., Mayın Algılama Sistemlerinde Nükleer Tekniklerin Simülasyonu ve Yapay Zeka ile Mayın Türlerinin Tespiti, Doctorate, M.Özşahin(Student), Continues  
İçelli O., X-ışını floresans spektroskopisinde standartsız kantitatif simülasyon metodu, Postgraduate, U.Keskin(Student), 2024  
İçelli O., Beyin MR görüntülerinin yapay zekâ yöntemleri ile sınıflandırılması, Postgraduate, Z.Kemal(Student), 2023  
İçelli O., Gama ışını buildup faktörlerinin Monte Carlo simülasyonu ve yapay sinir ağları ile modellenmesi, Postgraduate, B.Bilmez(Student), 2021  
İçelli O., Yeni nesil radyasyon zırhlayıcılar: epoksi temelli metal oksit mikro ve nano yapılu kompozitler, Doctorate, Y.Karabul(Student), 2021  
İçelli O., Tıbbi Radyasyon Zırhlamalarında Kullanılabilecek Çok Fonksiyonlu Mikro/nano Kompozit Malzemelerin Geliştirilmesi ve Dozimetrik Özelliklerinin İncelenmesi, Doctorate, M.Çağlar(Student), 2021  
İçelli O., Kimyasal Püskürtme Yöntemiyle Homojenliği Arttıracak Sisleştirici/Püskürtme Odacık Sisteminin Geliştirilmesi ve Farklı Malzemelerde Uygulanması, Postgraduate, M.Özşahin(Student), 2019  
İçelli O., RADYASYONA MARUZ BIRAKILAN MEME KANSERLİ HASTALARIN KANÖRNEKLERİNDEKİ SODYUM/POTASYUM (Na/K) ORANI İLE ELEKTRONYOĞUNLUĞU ARASINDA KORELASYON, Postgraduate, O.Toker(Student), 2018  
İçelli O., Borikasit katkılanmış ve gama ışını dozlanmış PEDOT: PSS tabakasının P3HT:PCBM esaslı fotovoltaik hücrelerde kullanılması, Doctorate, Ö.Yağcı(Student), 2016  
İçelli O., Bakırdere S., Ses dalgaları, manyetik alan ve elektrik alan etkisinde kurutulan gıdalardamikotoksinlerin tayini ve fiziksel/kimyasal parametrelerin incelenmesi, Doctorate, E.Nuroğlu(Student), 2016  
İçelli O., Tiroid kanserli hastalardan alınan kan örneklerindeki bazı minerallerinde değerlendirilmesi ve foton-atomik parametrelerinin tayini, Postgraduate, B.Balkan(Student), 2015  
İçelli O., Bazı bazalt malzemelerin manyetik alandaki elektriksel özellikleri,, Postgraduate, M.Çınar(Student), 2015  
İçelli O., Etkin atom numaralarını saçılma açılarına bağlı olarak hesaplayabilen bir yazılım paketi geliştirilmesi : ZXCUM, Postgraduate, A.Nihat(Student), 2015  
İçelli O., Susam L., Bazalt numunelerde eabf ve EBF parametrelerinin yeni bir metot ile tayini, Postgraduate, Y.Karabul(Student), 2014

İçelli O., Karakaya V., Fizikte bazı spektral uygulamalar, Postgraduate, I.Pakize(Student), 2014  
İçelli O., Çetin A., Agat ve kalsedon'un termolüminesans özellikleri, Postgraduate, D.Güngör(Student), 2010  
İçelli O., Kibar R., Krizopnas ve rodonit'in termolüminesans özellikleri, Postgraduate, N.Şentürk(Student), 2010

## Jury Memberships

Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, September, 2019  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Yıldız Teknik Üniversitesi, July, 2019  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Yıldız Teknik Üniversitesi, August, 2018

## Taught Courses And Trainings

İçelli O., Eğiticilerin Eğitimi Çalıştayı, 2008 - 2008

## Research Infrastructure Information

İçelli O., Nükleer Fizikte Simülasyon ve Yapay Zeka Araştırma Grubu, June 2023

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A Monte Carlo-based approach to determine effective atomic numbers of low-Z explosives in landmines**  
ÖZŞAHİN TOKER M., Yavas K., TOKER O., İÇELLİ O.  
Radiation Effects and Defects in Solids, 2025 (SCI-Expanded)
- II. **An alternative approach for determining the effective atomic number of some compounds: Monte Carlo study**  
Ozsahin M., KALECİK S., TOKER O., KURUCU Y., İÇELLİ O.  
Radiation Physics and Chemistry, vol.215, 2024 (SCI-Expanded)
- III. **An investigation on compatibility of experimental effective atomic numbers of some Fe-Ni alloys with those predicted by MCNP**  
KALECİK S., YILMAZ D., KURUCU Y., GÜROL A., TOKER O., İÇELLİ O.  
RADIATION PHYSICS AND CHEMISTRY, vol.202, 2023 (SCI-Expanded)
- IV. **Monte Carlo study on size-dependent radiation enhancement effects of spinel ferrite nanoparticles**  
Bilmez B., Toker M. O., TOKER O., İÇELLİ O.  
RADIATION PHYSICS AND CHEMISTRY, vol.199, 2022 (SCI-Expanded)
- V. **Na<sub>2</sub>Si<sub>3</sub>O<sub>7</sub>/Ag micro and nano-structured glassy composites: The experimental and MCNP simulation surveys of their radiation shielding performances**  
Çağlar M., Karabul Y., Kılıç M., Güven Özdemir Z., İçelli O.  
Progress In Nuclear Energy, vol.139, pp.1-13, 2021 (SCI-Expanded)
- VI. **Efficiency analysis of multiple detector effects on MCNP 6.2 simulations**  
AKÇALI Ö., TOKER O., Bilmez B., İÇELLİ O.  
Progress in Nuclear Energy, vol.139, 2021 (SCI-Expanded)
- VII. **The assessment of usage of epoxy based micro and nano-structured composites enriched with Bi<sub>2</sub>O<sub>3</sub> and WO<sub>3</sub> particles for radiation shielding**  
Karabul Y., İçelli O.  
Results in Physics, vol.26, 2021 (SCI-Expanded)

- VIII. **Practical simulation method for determination of effective atomic number from Rayleigh to Compton scattering ratio by MCNP**  
TOKER O., Bilmez B., AKÇALI Ö., Özşahin Toker M., İÇELLİ O.  
Radiation Physics and Chemistry, vol.181, 2021 (SCI-Expanded)
- IX. **Evaluation of three different glassy composites (quinary matrix designed using Cr2O3/Na2O/MnO2) in respect of radiation shielding behaviors**  
TOKER O., Bilmez B., Toker M. O., KAVANOZ H. B., AKÇALI Ö., YILMAZ M., İÇELLİ O.  
RADIATION EFFECTS AND DEFECTS IN SOLIDS, vol.176, no.9-10, pp.967-981, 2021 (SCI-Expanded)
- X. **An investigation on gamma-ray shielding properties of quaternary glassy composite (Na2Si3O7/Bi2O3/ B2O3/Sb2O3) by BXCOS and MCNP 6.2 code**  
AKÇALI Ö., Çağlar M., TOKER O., Bilmez B., KAVANOZ H. B., İÇELLİ O.  
Progress in Nuclear Energy, vol.125, 2020 (SCI-Expanded)
- XI. **Comparison of ITO and ZnO ternary glassy composites in terms of radiation shielding properties by Monte Carlo N-particle transport code and BXCOS**  
TOKER O., Bilmez B., KAVANOZ H. B., AKÇALI Ö., İÇELLİ O.  
RADIATION AND ENVIRONMENTAL BIOPHYSICS, vol.59, no.2, pp.283-293, 2020 (SCI-Expanded)
- XII. **Analysis of Conventionally and Magnetic-Field Dried Fruit and Nuts for Mycotoxins by High-Performance Liquid Chromatography–Tandem Mass Spectrometry (HPLC-MS/MS) and Trace Elements by Inductively Coupled Plasma–Mass Spectrometry (ICP-MS)**  
İçelli O., Öz E., Bakırdere S., Nuroglu E.  
Analytical Letters, vol.53, no.5, pp.735-745, 2020 (SCI-Expanded)
- XIII. **Determination of Trace Element Concentrations in Blood Samples and Their Correlation to Breast Cancer**  
TOPDAĞI Ö., TOKER O., BAKIRDERE S., ÖZ E., Bursalioglu E. O., Abuqbeith M., Demir M., İÇELLİ O.  
ATOMIC SPECTROSCOPY, vol.41, no.1, pp.29-35, 2020 (SCI-Expanded)
- XIV. **A novel comprehensive utilization of vanadium slag/epoxy resin/antimony trioxide ternary composite as gamma ray shielding material by MCNP 6.2 and BXCOS**  
Kavanoz H. B., Akçalı Ö., Toker O., Bilmez B., Çağlar M., İçelli O.  
Radiation Physics and Chemistry, vol.165, 2019 (SCI-Expanded)
- XV. **Na2Si3O7/BaO composites for the gamma-ray shielding in medical applications: Experimental, MCNP5, and WinXCom studies**  
Çağlar M., Kayacık H., Karabul Y., Kılıç M., Ozdemir Z., İçelli O.  
PROGRESS IN NUCLEAR ENERGY, vol.117, 2019 (SCI-Expanded)
- XVI. **Radiation interaction parameters for blood samples of breast cancer patients: an MCNP study**  
Toker O., Çağlar M., Öz E., Bakırdere S., Topdağı Ö., Eyecioglu O., İçelli O.  
RADIATION AND ENVIRONMENTAL BIOPHYSICS, vol.58, no.4, pp.531-537, 2019 (SCI-Expanded)
- XVII. **Availability of water glass/Bi2O3 composites in dielectric and gamma-ray screening applications**  
Demirbay T., Çağlar M., Karabul Y., Kılıç M., İçelli O., Güven Özdemir Z.  
Radiation Effects and Defects in Solids, vol.174, pp.419-434, 2019 (SCI-Expanded)
- XVIII. **BXCOS: a software for computation of radiation sensing**  
Eyecioglu O., El-Khayatt A. M., KARABUL Y., Çağlar M., TOKER O., İÇELLİ O.  
RADIATION EFFECTS AND DEFECTS IN SOLIDS, vol.174, pp.506-518, 2019 (SCI-Expanded)
- XIX. **Effects of the gamma-irradiation strength and basalt additive content on the mechanical performance and dielectric response of polypropylene films**  
Kılıç M., Ozdemir Z., Alkan U., Karabul Y., İçelli O.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.136, 2019 (SCI-Expanded)
- XX. **Dielectric and gamma shielding properties of sodium silicate glassy structure modified with tungsten**  
Kılıç M., Çağlar M., Karabul Y., Ozdemir Z., İçelli O.  
RADIATION EFFECTS AND DEFECTS IN SOLIDS, vol.174, pp.229-247, 2019 (SCI-Expanded)
- XXI. **Evaluation of magnetic field assisted sun drying of food samples on drying time and mycotoxin production**

- Nuroglu E., Öz E., Bakırdere S., Bursalioglu E. O., Kavanoz H. B., İçelli O.  
INNOVATIVE FOOD SCIENCE & EMERGING TECHNOLOGIES, vol.52, pp.237-243, 2019 (SCI-Expanded)
- XXII. **Improved Dielectric and Electrical Properties of PANI Achieved by Using Low Cost Mineral Additive**  
Kılıç M., Karabul Y., Ozdemir Z., Misirlioglu B., İçelli O.  
IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION, vol.26, pp.300-307, 2019 (SCI-Expanded)
- XXIII. **The influence of the partially europium substitution on the AC electrical properties of BiSr<sub>2</sub>CaCu<sub>2</sub>O<sub>6.5</sub> ceramics**  
Özdemir Z. G., KILIÇ M., KARABUL Y., Erdönmez S., İÇELLİ O.  
Processing and Application of Ceramics, vol.13, no.4, pp.323-332, 2019 (SCI-Expanded)
- XXIV. **Structural analysis and dielectric relaxation mechanism of conducting polymer/volcanic basalt rock composites**  
Bulgurcuoğlu A. E., Karabul Y., Kılıç M., Ozdemir Z., Erdonmez S., Misirlioglu B. S., Okutan M., İçelli O.  
Materials Science- Poland, 2019 (SCI-Expanded)
- XXV. **Determination of Se, Cr, Mn, Zn, Co, Na, and K in Blood Samples of Breast Cancer Patients to Investigate Their Variation Using ICP-MS and ICP-OES**  
Toker O., Topdağı Ö., Bakırdere S., Bursalioglu E. O., Öz E., Eyecoglu O., Karabul Y., Çağlar M., İçelli O.  
ATOMIC SPECTROSCOPY, vol.40, pp.11-16, 2019 (SCI-Expanded)
- XXVI. **X-ray irradiated LDPE/PP blends with high mechanical and dielectric performance**  
Alkan U., Kılıç M., Karabul Y., Caglar M., İçelli O., Ozdemir Z.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.135, 2018 (SCI-Expanded)
- XXVII. **Correlation between Na/K ratio and electron densities in blood samples of breast cancer patients**  
Topdağı Ö., Toker O., Bakırdere S., Bursalioglu E. O., Öz E., Eyecioglu O., Demir M., İçelli O.  
BIOMETALS, vol.31, pp.673-678, 2018 (SCI-Expanded)
- XXVIII. **Effect of borax additive on the dielectric response of polypyrrole**  
Kılıç M., Karabul Y., Ozdemir Z., Erdonmez S., Bulgurcuoğlu A. E., Yeşilkaya S. S., Okutan M., İçelli O.  
Bulletin of Materials Science, vol.41, no.2, 2018 (SCI-Expanded)
- XXIX. **Structural Analysis and Dielectric Relaxation Mechanism of Conducting Polymer/ Volcanic Basalt Rock Composites**  
BULGURCUOĞLU A. E., KARABUL Y., KILIÇ M., GÜVEN ÖZDEMİR Z., ERDÖNMEZ S., SÜNGÜ MISIRLIOĞLU B., OKUTAN M., İÇELLİ O.  
MATERIALS SCIENCE-POLAND, vol.36, pp.1-8, 2018 (SCI-Expanded)
- XXX. **Measurement of photon interaction parameters of high-performance polymers and their composites**  
Buyukyildiz M., Tasdelen M. A., KARABUL Y., ÇAĞLAR M., İÇELLİ O., BOYDAŞ E.  
RADIATION EFFECTS AND DEFECTS IN SOLIDS, vol.173, pp.474-488, 2018 (SCI-Expanded)
- XXXI. **Polythiophene Based Composite with Enhanced Dielectric Performance with Basalt**  
Karabul Y., Kılıç M., Ozdemir Z., Erdönmez S., İçelli O.  
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.28, pp.325-333, 2018 (SCI-Expanded)
- XXXII. **Sodium Meta Silicate Doped PPy and PT Composites with Giant Dielectric Constant**  
Erdönmez S., Karabul Y., Bulgurcuoğlu A. E., Kılıç M., Ozdemir Z., İçelli O.  
IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION, vol.24, pp.3031-3037, 2017 (SCI-Expanded)
- XXXIII. **Polypropylene/basalt thick film composites: structural, mechanical and dielectric properties**  
Alkan U., Karabul Y., Bulgurcuoğlu A. E., Kılıç M., Ozdemir Z., İçelli O.  
E-POLYMERS, vol.17, pp.417-425, 2017 (SCI-Expanded)
- XXXIV. **Determination of radiation shielding parameters of 304L stainless steel specimens from welding area for photons of various gamma ray sources**  
Buyukyildiz M., KURUDİREK M., Ekici M., İÇELLİ O., KARABUL Y.  
PROGRESS IN NUCLEAR ENERGY, vol.100, pp.245-254, 2017 (SCI-Expanded)
- XXXV. **Structural, optical and electrical properties of polypyrrole in an ionic liquid**  
Gurbuz O., Şenkal B. F., İÇELLİ O.

- POLYMER BULLETIN, vol.74, no.7, pp.2625-2639, 2017 (SCI-Expanded)
- XXXVI. **Synthesis and characterization of EuBa<sub>2</sub>Ca<sub>2</sub>Cu<sub>3</sub>O<sub>9-x</sub>: The influence of temperature on dielectric properties and charge transport mechanism**  
Ozdemir Z., Kılıç M., Karabul Y., Misirlioglu B., Cataltepe O. A., İçelli O.  
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.63, pp.196-202, 2017 (SCI-Expanded)
- XXXVII. **A study on compatibility of experimental effective atomic numbers with those predicted by ZXC**  
Eyecioglu O., EL-KHAYATT A. M., KARABUL Y., İÇELLİ O.  
NUCLEAR SCIENCE AND TECHNIQUES, vol.28, no.5, 2017 (SCI-Expanded)
- XXXVIII. **Prediction of electron density and trace element concentrations in human blood serum following radioiodine therapy in differentiated thyroid cancer patients**  
Bursalioglu E. O., ALKAN F. A., BARUTCU U. B., DEMİR M., KARABUL Y., BALKAN B., ÖZ E., İÇELLİ O.  
MEASUREMENT, vol.100, pp.19-25, 2017 (SCI-Expanded)
- XXXIX. **Structural and dielectric properties of Europium based copper oxide layered perovskite material**  
Ozdemir Z., KILIÇ M., KARABUL Y., Cataltepe O. A., İÇELLİ O., Onbasli U.  
FERROELECTRICS, vol.510, no.1, pp.121-131, 2017 (SCI-Expanded)
- XL. **Investigating the performance of P3HT:PCBM organic solar cells involving gamma-irradiated PEDOT:PSS layer**  
YAĞCI Ö., YEŞİLKAYA S. S., Okutan M., İÇELLİ O.  
RADIATION EFFECTS AND DEFECTS IN SOLIDS, vol.172, pp.805-814, 2017 (SCI-Expanded)
- XLI. **Gamma-ray irradiation effect on mechanical and dielectric properties of volcanic basalt mineral reinforced low density polyethylene films**  
Kılıç M., Karabul Y., Alkan U., Yağci Ö., Okutan M., Okutan M., İçelli O.  
Physicochemical Problems of Mineral Processing, vol.53, no.1, pp.578-590, 2017 (SCI-Expanded)
- XLII. **Structure and Impedance Properties of Some Basalt Materials Under Magnetic Field**  
Cinar M., Kılıç M., Karabul Y., Canli N., Alkan U., Okutan M., İçelli O.  
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.11, no.4, pp.477-483, 2016 (SCI-Expanded)
- XLIII. **Electrical and impedance properties of composites: Volcanic basalt rocks**  
Yeşilkaya S. S., Ozdemir Z., Canli N., Yıldız A., İçelli O., Okutan M.  
COMPOSITES PART B-ENGINEERING, vol.95, pp.488-492, 2016 (SCI-Expanded)
- XLIV. **Electrical and mechanical properties of LDPE/PANI composites**  
Alkan U., Kılıç M., Karabul Y., Yamak H., Okutan M., İçelli O.  
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.11, pp.343-348, 2016 (SCI-Expanded)
- XLV. **Effect of boric acid doped PEDOT:PSS layer on the performance of P3HT: PCBM based organic solar cells**  
YAĞCI Ö., YEŞİLKAYA S. S., Yuksel S., Ongul F., VARAL N. M., KUS M., GÜNEŞ S., İÇELLİ O.  
SYNTHETIC METALS, vol.212, pp.12-18, 2016 (SCI-Expanded)
- XLVI. **Study of the electron densities of some food products dried using the new method**  
Nuroglu E., Bursalioglu E. O., Karabul Y., Bakırdere S., İçelli O.  
DRYING TECHNOLOGY, vol.34, pp.1445-1454, 2016 (SCI-Expanded)
- XLVII. **Computation of EABF and EBF for basalt rock samples**  
KARABUL Y., Susam L. A., İÇELLİ O., Eyecioglu O.  
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.797, pp.29-36, 2015 (SCI-Expanded)
- XLVIII. **Surface and electrical properties of electro-coagulated thermal waste**  
Yeşilkaya S. S., Okutan M., İçelli O., Yalçın Z.  
High Temperature Materials and Processes, vol.34, no.3, pp.285-290, 2015 (SCI-Expanded)
- XLIX. **Electrical behavior of probertite by dielectric spectroscopy**  
Okutan M., Yalçın Z., İçelli O., Ay F., Boncukcuoglu R., Artun O., Delipinar D.  
High Temperature Materials and Processes, vol.33, no.6, pp.545-552, 2014 (SCI-Expanded)
- L. **Dielectric characterization of electro-coagulated boron waste**  
Okutan M., Kavanoz H. B., İçelli O., Yalçın Z., Ay F., Delipinar D., Yakuphanoglu F.

VACUUM, vol.101, pp.298-300, 2014 (SCI-Expanded)

- LI. **Photon parameters for gamma-rays sensing properties of some thick oxide films**  
Kavanoz H. B., Yağci Ö., Yalçın Z., İçelli O., Altındal A., Okutan M., Mann K. S.  
VACUUM, vol.101, pp.238-245, 2014 (SCI-Expanded)
- LII. **Effect of physical, chemical and electro-kinetic properties of pumice samples on radiation shielding properties of pumice material**  
Tapan M., YALÇIN Z., İÇELLİ O., Kara H., Orak S., Özvan A., Depci T.  
ANNALS OF NUCLEAR ENERGY, vol.65, pp.290-298, 2014 (SCI-Expanded)
- LIII. **Resistivity, ESR, and Radiation Shielding Properties of the Volcanic Rock Materials**  
Nuhoglu Ç., Tapan M., Okutan M., Aydın S., Yalçın Z., İçelli O., Kavanoz H. B., Orak S.  
ADVANCES IN CONDENSED MATTER PHYSICS, 2014 (SCI-Expanded)
- LIV. **Energy Absorption and Exposure Buildup Factors of Essential Amino Acids**  
Bursalıoğlu E., Balkan B., Kavanoz H. B., Okutan M., İçelli O., Yalçın Z.  
BIOMED RESEARCH INTERNATIONAL, 2014 (SCI-Expanded)
- LV. **Electrical and optical properties of chalcedony and striped chalcedony**  
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- XXXI. **Investigation of the variations in Se, Cr, Mn, Zn, Co, Na, K concentrations in blood samples of breast cancer patients**  
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- XXXII. **Study of electron density via some elements in breast cancer patients' blood samples**  
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- XXXIII. **İntraoperatif Radyoterapi Doz Hesaplama Sisteminde Kullanılan Transfer Katsayılarının Monte Carlo Simülasyonu ile Doğrulanması**  
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- XXXV. **Sodium Silicate/Wolfram Glassy Composites: Investigation of Shielding and Dielectric Parameters**  
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- XXXVI. **Investigation of Shielding Properties: Sodium Silicate/Kufeki Glassy Structure**  
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- XL. **Mechanical and Dielectric Properties of Low Density Polyethylene/Borax Compsites**  
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- XLV. **Development of Sodium Silicate Bismuth Glass as a Radiation Shielding**  
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- XLVII. **Use of boron mineral wastes in the photovoltaic applications**  
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- LVII. **A Comprehensive Study on effect of gamma radiation for basalt reinforced low density polyethylene**  
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- LIX. **Electrical Properties of Some Basalt Materials under Magnetic Field**  
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- LX. **Electrical Characterization of Basalt Materials Under Magnetic Field**  
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- LXIII. **In the Room Conditions Improved Efficiency of Organic Solar Cells Using of Boron Compounds**  
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- LXIV. **ESR Electrical and Chemical Properties of Powdered Basalt Rocks**  
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- LXVIII. **FIRST PRINCIPLE CALCULATION OF STROMEYERITE**  
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- LXXIII. **Measurements of the total molcular differential attenuation coefficients for scattering of gama rays at some compounds**  
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- LXXIV. **Experimental study on ratios to Compton scattering of coherent scattering of elements with atomic number 26 < Z < 82 in 59.5 keV for 55?**  
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TFD 20. Turkish International Physics Conference, 01 September 2001
- LXXV. **Coherent scattering of 59.5 keV ?-rays by Au through angles from 45? to 125?. EDXRS-2000**  
İÇELLİ O.  
European Conference on Energy Dispersive X-Ray Spectrometry, 01 June 2000
- LXXVI. **68 < Z < 92 Aralıđında Bazı Elementlerin Li(i=1,2 ve 3) Alt Tabaka Flüoresans Tesir Kesitlerinin ve Flüoresans Verimlerinin Ölçülmesi**  
İÇELLİ O.  
III. Ulusal Atom ve Molekül Fiziđi Sempozyumu, 01 May 2000
- LXXVII. **21 < Z < 82 Aralıđındaki Bazı Elementlerin İnkohorent Saçılma Fonksiyonu**  
İÇELLİ O.  
III. Ulusal Atom ve Molekül Fiziđi Sempozyumu, 01 May 2000
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II. Ulusal Atom ve Molekül Fiziđi Sempozyumu, 01 September 1998
- LXXXIII. **Au Tarafından 59,5 keV'lik Gama Işınlarının Rayleigh Saçılması**  
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## Supported Projects

- İÇELLİ O., Keskin U., Project Supported by Higher Education Institutions, X-IŞINI FLORESANS SPEKTROSKOPİSİNDE STANDARTSIZ KANTİTATİF SİMÜLASYON METODU, 2023 - 2025
- GÜVEN ÖZDEMİR Z., BEYAZAY E., KILIÇ M., İÇELLİ O., ALKAN Ü., KARABUL Y., Project Supported by Higher Education Institutions, Polipropilen/Bi<sub>2</sub>O<sub>3</sub> ve Polipropilen/WO<sub>3</sub> Nano Kompozit Filmlerin Geliştirilmesi Elektrik ve Mekanik Özelliklerinin Tespiti, 2020 - 2022
- İÇELLİ O., KARABUL Y., Project Supported by Higher Education Institutions, YENİ NESİL RADYASYON ZIRHLAYICILAR: EPOKSİ TEMELLİ METAL OKSİT MİKRO VE NANO YAPILI KOMPOZİTLER, 2019 - 2021
- İÇELLİ O., Çağlar M., Project Supported by Higher Education Institutions, TIBBİ RADYASYON ZIRHLAMALARINDA KULLANILABİLECEK ÇOK FONKSİYONLU MİKRO/NANO KOMPOZİT MALZEMELERİN GELİŞTİRİLMESİ VE DOZİMETRİK ÖZELLİKLERİNİN İNCELENMESİ, 2019 - 2021
- İÇELLİ O., GÜVEN ÖZDEMİR Z., KILIÇ M., KARABUL Y., Project Supported by Higher Education Institutions, YÜKSEK RADYASYON ZIRHLAMA ÖZELLİĞİNE SAHİP AĞIR METAL OKSİT CAMLARIN ÜRETİLMESİ VE OPTİMİZASYONUN SAĞLANMASI, 2015 - 2018
- İÇELLİ O., Project Supported by Higher Education Institutions, Radyasyona Maruz Bırakılan Meme Kanseri Hastalarının Kan Örneklerinde Sodyum/Potasyum (Na/K) Oranı ile Elektron Yoğunluğu Arasında Korelasyon, 2015 - 2018
- İçelli O., Eyecioğlu Ö., TÜBİTAK Project, Buildup Faktörlerini Hesaplayabilen Yazılım Paketinin Geliştirilmesi, 2015 - 2017
- KILIÇ M., KARABUL Y., İÇELLİ O., ALKAN Ü., Project Supported by Higher Education Institutions, POLİMERİK KOMPOZİTLERİN FARKLI SICAKLIKTA DİELEKTRİK VE MEKANİK ÖZELLİKLERİN İNCELENMESİ, 2015 - 2017
- İÇELLİ O., Project Supported by Higher Education Institutions, Kurutulmuş Sebze Ve Meyvelerdeki Aflatoksin Ve Diğer Zararlı Kimyasalların Üreticiden Tüketicie Kadar Geçen Aşamalarda Biyosensör/Kimyasal Sensörlü İndikatör Oluşumları İle Takibi, 2013 - 2016
- İÇELLİ O., Project Supported by Higher Education Institutions, Borikasit Katkılanmış ve Gama Işını Dozlanmış PEDOT:PSS Tabakasının P3HT:PCBM Esaslı Ftovoltaik Hücrelerde Kullanılması, 2013 - 2016
- YAĞCI Ö., İÇELLİ O., Project Supported by Higher Education Institutions, Farklı Metal Grupları İçeren Ftalosiyanınlerin Foto-Voltaik Uygulamalarda Kullanılması, 2013 - 2016
- İÇELLİ O., Project Supported by Higher Education Institutions, Troid kanserli hastalardan alınan kan örneklerindeki bazı minerallerin değerlendirilmesi ve foton-atomik parametrelerinin tayini, 2014 - 2015
- Okutan M., Bilgili M. S., Yalçın Z., İçelli O., Project Supported by Higher Education Institutions, Bor Oksit Atıklarının Dielektrik Spektroskopi Metodu İle Elektriksel ve Yapısal Özelliklerin Tayin Edilmesi, 2011 - 2014
- Altındal A., Okutan M., Yalçın Z., İçelli O., KESKİN B., Project Supported by Higher Education Institutions, METAL YALITKAN YARIİLETKEN MYY YAPILARDA YÜK İLETİM MEKANİZMALARININ BELİRLENMESİ, 2012 - 2013
- İÇELLİ O., Project Supported by Higher Education Institutions, Bor Atıklarından Etkin Bir Biçimde Faydalanarak Radyasyon Zırhlama Materyallerinin Geliştirilmesi Ve Modelleme Çalışmaları, 2011 - 2013
- İçelli O., Project Supported by Higher Education Institutions, Bor Atıklarından Faydalanarak Dielektrik Spektroskopi Metodu ile Elektriksel ve Yapısal Özelliklerinin Tayin Edilmesi, 2011 - 2013

## Patent

- İçelli O., Güneş S., Aydın Yüksel S., Yeşilkaya S. S., Yağci Ö., PEDOT:PSS film üretiminde borik asit kullanımı, Patent, CHAPTER G Physics, The Invention Registration Number: TR201508718B , Standard Registration, 2021
- Yeşilkaya S. S., İçelli O., Yağci Ö., Usage of Boric Acid in the Production of PEPOT:PSS Film, Patent, CHAPTER G Physics, The Invention Registration Number: US20180287083A1 , Standard Registration, 2019

## Activities in Scientific Journals

- El-Cezeri Journal of Science and Engineering, Committee Member, 2014 - Continues

## **Memberships / Tasks in Scientific Organizations**

TÜBA, Associate Member, 2015 - Continues

## **Scientific Research / Working Group Memberships**

TÜBA Enerji Çalışma Grubu, YILDIZ TEKNİK ÜNİVERSİTESİ, Türkiye, www.tuba.gov.tr, 2017 - Continues

## **Metrics**

Publication: 198

Citation (WoS): 888

Citation (Scopus): 1291

H-Index (WoS): 17

H-Index (Scopus): 20

## **Invited Talks**

Stem Nedir? (Bahçelievler Ortaokulu), Conference, TÜBİTAK, Turkey, November 2019

Stem Nedir? (Gebze Sos.Blm Lisesi), Conference, TÜBİTAK, Turkey, November 2019

Nükleer Enerjinin Dünü Bugünü ve Yarını, Seminar, TÜBA, Turkey, April 2019

## **Non Academic Experience**

Milli Eğitim Bakanlığı, öğretmen