

# 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 diferensiyel 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, 2020 - Continues

Head of Department, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2017 - 2020  
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

## Advising Theses

İÇELLİ O., Radyasyon Zirhlayıcı Polimerik Kompozitlerin Geliştirilmesi ve Fiziksel Parametrelerinin Optimizasyonu, Doctorate, Y.Karabul(Student), Continues  
İÇELLİ O., Radyoterapi Uygulamalarında Çeşitli Nanopartiküllerin Dozimetrik Etkisinin Monte Carlo Simülasyonu İle İncelenmesi, Doctorate, M.Çağlar(Student), Continues  
İçelli O., Camı Yapıların Foton-Atomik Parametrelerin Stokastik Yöntemlerle Belirlenmesi, Postgraduate, B.Bilmez(Student), Continues  
İçelli O., Nanoferritlerin Savunma Sanaayinde Bilişimsel Uygulamaları, Doctorate, M.Özşahin(Student), Continues  
İçelli O., İnsansız Hava Araçlarında Kullanılan Fiber Takviyeli Polimerlere Yanmazlık Özelliği Kazandırılması, Postgraduate, Ö.Faruk(Student), Continues  
İçelli O., Nükleer Tıpta Farklı Kanser Türlerine Uygulanan Tedavi Teknikleri İçin Monte Carlo Simülasyonu ve Sezgisel Algoritma Uygulamaları, Doctorate, O.TOKER(Student), Continues  
İçelli O., Kimyasal Püskürtme Yöntemiyle Homojenliği Arttıracak Sisleştirici/Püskürtme Odacık Sisteminin Geliştirilmesi ve Farklı Malzemelerde Uygulanması, Postgraduate, M.ÖZŞAHİN(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., Borikası katkılanmış ve gama ısını dozlanmış PEDOT: PSS tabakasının P3HT:PCBM esaslı fotovoltaiik hücrelerde kullanılması, Doctorate, Ö.Yağcı(Student), 2016  
İçelli O., Bakır derye S., Ses dalgaları, manyetik alan ve elektrik alan etkisinde kurutulmuş gıdalarda mikotoksinlerin tayini ve fiziksel/kimyasal parametrelerin incelenmesi, Doctorate, E.Nuroğlu(Student), 2016  
İçelli O., Etkin atom numaralarını saçılma açılarına bağılı olarak hesaplayabilen bir yazılım paketi geliştirilmesi : ZXCOM, Postgraduate, A.Nihat(Student), 2015  
İçelli O., Bazı bazalt malzemelerin manyetik alandaki elektriksel özellikleri, Postgraduate, M.Çınar(Student), 2015  
İçelli O., Tiroid kanserli hastalardan alınan kan örneklerindeki bazı minerallerinde değerlendirilmesi ve foton-atomik parametrelerinin tayini, Postgraduate, B.Balkan(Student), 2015  
İçelli O., Karakaya V., Fizikte bazı spektral uygulamalar, Postgraduate, I.Pakize(Student), 2014  
İçelli O., Susam L., Bazalt numunelerde eabf ve EBF parametrelerinin yeni bir metot ile tayini, Postgraduate, Y.Karabul(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

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

- I. **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)
- II. **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)
- III. **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)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **Evaluation of three different glassy composites (quinary matrix designed using Cr<sub>2</sub>O<sub>3</sub>/Na<sub>2</sub>O/MnO<sub>2</sub>) 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)
- IX. **An investigation on gamma-ray shielding properties of quaternary glassy composite (Na<sub>2</sub>Si<sub>3</sub>O<sub>7</sub>/Bi<sub>2</sub>O<sub>3</sub>/ B<sub>2</sub>O<sub>3</sub>/Sb<sub>2</sub>O<sub>3</sub>) by BXCUM 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)
- X. **Comparison of ITO and ZnO ternary glassy composites in terms of radiation shielding properties by Monte Carlo N-particle transport code and BXCUM**  
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)
- XI. **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)

- XII. **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)
- XIII. **A novel comprehensive utilization of vanadium slag/epoxy resin/antimony trioxide ternary composite as gamma ray shielding material by MCNP 6.2 and BXCUM**  
Kavanoz H. B., Akçalı Ö., Toket O., Bilmez B., Çağlar M., İçelli O.  
Radiation Physics and Chemistry, vol.165, 2019 (SCI-Expanded)
- XIV. **Na<sub>2</sub>Si<sub>3</sub>O<sub>7</sub>/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)
- XV. **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)
- XVI. **BXCUM: 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)
- XVII. **Availability of water glass/Bi<sub>2</sub>O<sub>3</sub> 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. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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., Eyecioglu O., Karabul Y., Çağlar M., İçelli O.  
ATOMIC SPECTROSCOPY, vol.40, pp.11-16, 2019 (SCI-Expanded)
- XXIII. **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)
- XXIV. **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)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- 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. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **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)
- 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)
- 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 NANO ELECTRONICS AND OPTOELECTRONICS, vol.11, no.4, pp.477-483, 2016 (SCI-Expanded)
- XLII. 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)
- XLIII. Electrical and mechanical properties of LDPE/PANI composites**  
Alkan U., Kılıç M., Karabul Y., Yamak H., Okutan M., İçelli O.  
JOURNAL OF NANO ELECTRONICS AND OPTOELECTRONICS, vol.11, pp.343-348, 2016 (SCI-Expanded)
- XLIV. 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)
- XLV. 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)
- XLVI. 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)
- XLVII. 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)
- XLVIII. 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)
- XLIX. 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)
- L. 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)
- LI. 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)
- LII. Resistivity, ESR, and Radiation Shielding Properties of the Volcanic Rock Materials**  
Nuhoglu Ç., Tapan M., Okutan M., Aydin S., Yalçın Z., İçelli O., Kavanoz H. B., Orak S.  
ADVANCES IN CONDENSED MATTER PHYSICS, 2014 (SCI-Expanded)
- LIII. Energy Absorption and Exposure Buildup Factors of Essential Amino Acids**  
Bursalioglu E., Balkan B., Kavanoz H. B., Okutan M., İçelli O., Yalçın Z.  
BIOMED RESEARCH INTERNATIONAL, 2014 (SCI-Expanded)
- LIV. Electrical and optical properties of chalcedony and striped chalcedony**  
Cetin A., Okutan M., İçelli O., Yalçın Z., San S. E., Kibar R., Pesen E.  
VACUUM, vol.97, pp.75-80, 2013 (SCI-Expanded)
- LV. Investigation of shielding properties of some boron compounds**

İÇELLİ O., Mann K. S., YALÇIN Z., Orak S., KARAKAYA V.

ANNALS OF NUCLEAR ENERGY, vol.55, pp.341-350, 2013 (SCI-Expanded)

- LVI. **Measurement of K-shell absorption jump factors and jump ratios in some lanthanide elements using EDXRF technique**  
POLAT R., İÇELLİ O., YALÇIN Z., Pesen E., Orak S.  
ANNALS OF NUCLEAR ENERGY, vol.54, pp.267-273, 2013 (SCI-Expanded)
- LVII. **A different perspective to the effective atomic number ( $Z(\text{eff})$ ) for some boron compounds and trommel sieve waste (TSW) with a new computer program ZXCOM**  
YALÇIN Z., İÇELLİ O., OKUTAN M., Boncukcuoglu R., Artun O., Orak S.  
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- XXX. **Temperature Dependence of Dielectric Properties and Electrical Conductivity of EuBa<sub>2</sub>Ca<sub>2</sub>Cu<sub>3</sub>O<sub>9-x</sub>**  
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- XLI. **Dielectric Characterization of Some Basalt Materials under Magnetic Field**  
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- L. **ESR Electrical and Chemical Properties of Powdered Basalt Rocks**  
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- LI. **IDENTITY of EABF AND EBF PARAMETERS OF BASALT SAMPLES WITH NEW METHODS**  
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- LIII. **The spectral applications of Beer-Lambert law for some biological and dosimetric materials**  
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2nd International Conference on Analysis and Applied Mathematics (ICAAM), Shymkent, Kazakhstan, 11 - 13 September 2014, vol.1611, pp.199-203
- LIV. **Photon parameters for gamma-rays and gas sensing properties of some thick oxide films**  
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- LV. **FIRST PRINCIPLE CALCULATION OF STROMEYERITE**  
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- LVI. **First Principles Calculation of Stromeyerite, Ag<sub>2</sub>Cu<sub>2</sub>S<sub>3</sub>**  
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- LVII. **Analysis of Impedance Spectroscopy, Polarization and Resistivity Behavior in Electro-Coagulation of Thermal Waste**  
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- LXI. **Experimental study on ratios to Compton scattering of coherent scattering of elements with atomic number 26 <math>Z</math> <math>Z</math> 82 in 59.5 keV for 55?**  
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İÇELLİ O.  
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- LXIII. **21 < Z < 82 Aralığındaki Bazı Elementlerin İnkohherent Saçılma Fonksiyonu**  
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III. Ulusal Atom ve Molekül Fiziği Sempozyumu, 01 May 2000
- LXIV. **68 < Z < 92 Aralığında Bazı Elementlerin Li(i=1,2 ve 3) Alt Tabaka Flüoresans Tesir Kesitlerinin ve Flüoresans Verimlerinin Ölçülmesi**  
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- LXV. **45°-125° Saçılma Açısı Aralığında 79Au Tarafından 59,5 keV'lik  $\gamma$ -Işınlının Koherent Saçılması**  
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- LXVI. **Al, Fe, Zn, Nb, Sn ve Ta Elementlerinin İnkohherent Saçılma Fonksiyonu**  
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- LXVII. **Koherent ve Compton Saçılma Diferansiyel Tesir Kesitleri Oranlarının 55° ve 115° için 26 < Z < 82 Atomik Element Bölgesinde Atom Numarasına Göre Değişimi**  
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- LXX. **Ta, W Au Elementlerinin L<sub>1</sub>, L<sub>2</sub>, L<sub>3</sub> X-ışını üretim tesir kesitlerinin ölçülmesi**  
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## Supported Projects

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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

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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., TUBITAK 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 DIELEKTRİK VE MEKANİK ÖZELLİKLERİN İNCELENMESİ, 2015 - 2017

İÇELLİ O., Project Supported by Higher Education Institutions, Kurutulmuş Sebze Ve Meyvelerdeki Aflatoxin Ve Diğer Zararlı Kimyasalların Üreticiden Tüketicieye Kadar Geçen Aşamalarda Biyosensör/Kimyasal Sensörlü İndikatör



Oluşumları İle Takibi, 2013 - 2016

İÇELLİ O., Project Supported by Higher Education Institutions, Borikası Katkılanmış ve Gama Işını Dozlanmış PEDOT:PSS Tabakasının P3HT:PCBM Esaslı Fotovoltaik Hücrelerde Kullanılması, 2013 - 2016

YAĞCI Ö., İÇELLİ O., Project Supported by Higher Education Institutions, Farklı Metal Grupları İçeren Ftalosiyanınların 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

İÇELLİ O., Project Supported by Higher Education Institutions, Bor Atıklarından Etkin Bir Biçimde Faydalanarak Radyasyon Zırhlama Materyallerinin Geliştirilmesi Ve Modelleme Çalışmaları, 2011 - 2013

İÇELLİ O., Other International Funding Programs, 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: 185

Citation (WoS): 888

Citation (Scopus): 1135

H-Index (WoS): 17

H-Index (Scopus): 19

## Invited Talks

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

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

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

## Non Academic Experience

Milli Eğitim Bakanlığı