

# Prof. Orhan İÇELLİ

## Personal Information

**Email:** oicelli@yildiz.edu.tr

**Web:** <https://avesis.yildiz.edu.tr/oicelli>

## Education Information

Doctorate, Atatürk Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, Turkey 1998 - 2002

## Certificates, Courses and Trainings

Quality Management, İç Denetçi, Yıldız Teknik Üniversitesi, 2015

## 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, Yıldız Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 2011 - Continues

## Advising Theses

İÇELLİ O., Radyasyon Zırhlı Polimerik Kompozitlerin Geliştirilmesi ve Fiziksel Parametrelerinin Optimizasyonu, Doctorate, Y.Karabul(Student), Continues

İÇELLİ O., P3HT:PCBM Foto Voltaik Uygulamalar İçin Ferromagnet Nanopartikül Katkılanmış PEDOT:PSS nin Dış Manyetik Alan ve Gama Dozlamaya Bağlı Karakterizasyonlarının Belirlenmesi, Doctorate, Y.Hafizoğlu(Student), Continues

İÇELLİ O., Radyoterapi Uygulamalarında Çeşitli Nanopartiküllerin Dozimetrik Etkisinin Monte Carlo Simülasyonu İle İncelenmesi, Doctorate, M.Çağlar(Student), Continues

İÇELLİ O., Kimyasal Püskürtme Yöntemiyle Homojenliği Arttıracak Sisleştirici/Püskürtme Odacık Sisteminin Geliştirilmesi ve Farklı Malzemelerde Uygulanması, Post Graduate, M.ÖZŞAHİN(Student), Continues

İÇELLİ O., Güneş Kollektörleri İçin Antifrizli Cam Üretimi, Elektrokimyasal ve Radyasyon Dozimetrik Parametrelerinin Belirlenmesi, Doctorate, A.Aykara(Student), Continues

İÇELLİ O., RADYASYONA MARUZ BIRAKILAN MEME KANSERLİ HASTALARIN KAN ÖRNEKLERİNDEKİ SODYUM/POTASYUM (Na/K) ORANI İLE ELEKTRON YOĞUNLUĞU ARASINDA KORELASYON, Post Graduate, O.Toker(Student), 2018

İÇELLİ O., BAKIRDERE S., Ses dalgaları, manyetik alan ve elektrik alan etkisinde kurutulmuş gıdalarda mikotoksinlerin tayini ve fiziksel/kimyasal parametrelerin incelenmesi, Doctorate, E.Nuroğlu(Student), 2016

İÇELLİ O., Borikasit katkılanmış ve gama ısı dozlanmış PEDOT: PSS tabakasının P3HT:PCBM esaslı fotovoltaik hücrelerde kullanılması, Doctorate, Ö.Yağcı(Student), 2016

İÇELLİ O., Bazı bazalt malzemelerin manyetik alandaki elektriksel özellikleri,, Post Graduate, M.Çınar(Student), 2015

İÇELLİ O., Etkin atom numaralarını saçılma açılarına bağlı olarak hesaplayabilen bir yazılım paketi geliştirilmesi : ZXCUM, Post Graduate, A.Nihat(Student), 2015

İÇELLİ O., Tiroid kanserli hastalardan alınan kan örneklerindeki bazı minerallerin değerlendirilmesi ve foton-atomik parametrelerinin tayini, Post Graduate, B.Balkan(Student), 2015

İÇELLİ O., Bazalt numunelerde eabf ve EBF parametrelerinin yeni bir metot ile tayini, Post Graduate, Y.Karabul(Student), 2014

İçelli O., Karakaya V., Fizikte bazı spektral uygulamalar, Post Graduate, I.Pakize(Student), 2014

İÇELLİ O., Probertitelektrokoagülasyon termal atık ve elektrokoagülasyon bor atığın dielektrik özelliklerinin empedans spektroskopisi yöntemi ile incelenmesi, Post Graduate, D.Delipınar(Student), 2013

İÇELLİ O., Agat ve kalsedon'un termolüminesans özellikleri, Post Graduate, D.Güngör(Student), 2010

İÇELLİ O., Krizopnas ve rodonit'in termolüminesans özellikleri, Post Graduate, N.Şentürk(Student), 2010

## Jury Memberships

Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, September, 2019

Appointment Academic Staff, Appointment Academic Staff, Yıldız Teknik Üniversitesi, July, 2019

Appointment Academic Staff, Appointment Academic Staff, Yıldız Teknik Üniversitesi, August, 2018

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **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 (Journal Indexed in SCI)
- II. **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, pp.283-293, 2020 (Journal Indexed in SCI)
- III. **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, pp.735-745, 2020 (Journal Indexed in SCI Expanded)
- IV. **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, pp.29-35, 2020 (Journal Indexed in SCI)
- V. **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., Toker O., Bilmez B., Çağlar M., İçelli O.  
Radiation Physics and Chemistry, vol.165, 2019 (Journal Indexed in SCI)
- VI. **Radiation interaction parameters for blood samples of breast cancer patients: an MCNP study**  
Toker O., Caglar M., Öz E., Bakırdere S., Topdağı Ö., Eyecioglu O., İçelli O.  
RADIATION AND ENVIRONMENTAL BIOPHYSICS, vol.58, pp.531-537, 2019 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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, vol.37, pp.353-363, 2019 (Journal Indexed in SCI)

- IX. **BXCOM: a software for computation of radiation sensing**  
Eyecioglu O., El-Khayatt A. M. , KARABUL Y., Caglar M., TOKER O., İÇELLİ O.  
RADIATION EFFECTS AND DEFECTS IN SOLIDS, vol.174, pp.506-518, 2019 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)
- XII. **Dielectric and gamma shielding properties of sodium silicate glassy structure modified with tungsten**  
Kılıç M., Caglar M., Karabul Y., Ozdemir Z., İçelli O.  
RADIATION EFFECTS AND DEFECTS IN SOLIDS, vol.174, pp.229-247, 2019 (Journal Indexed in SCI)
- XIII. **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 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **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, pp.323-332, 2019 (Journal Indexed in SCI Expanded)
- XVI. **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 (Journal Indexed in SCI)
- XVII. **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 (Journal Indexed in SCI)
- XVIII. **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 (Journal Indexed in SCI)
- XIX. **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, 2018 (Journal Indexed in SCI)
- XX. **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 (Journal Indexed in SCI Expanded)
- XXI. **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 (Journal Indexed in SCI)
- XXII. **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 (Journal Indexed in SCI)

- XXIII. **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 (Journal Indexed in SCI)
- XXIV. **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 (Journal Indexed in SCI)
- XXV. **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 (Journal Indexed in SCI)
- XXVI. **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 (Journal Indexed in SCI)
- XXVII. **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, 2017 (Journal Indexed in SCI)
- XXVIII. **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 (Journal Indexed in SCI)
- XXIX. **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, pp.578-590, 2017 (Journal Indexed in SCI)
- XXX. **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 (Journal Indexed in SCI)
- XXXI. **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, pp.121-131, 2017 (Journal Indexed in SCI)
- XXXII. **Structure and Impedance Properties of Some Basalt Materials Under Magnetic Field**  
Cinar M., Kılıç M., Karabul Y., Canli N. Y. , Alkan U., Okutan M., İçelli O.  
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.11, pp.477-483, 2016 (Journal Indexed in SCI)
- XXXIII. **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 (Journal Indexed in SCI)
- XXXIV. **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 (Journal Indexed in SCI)
- XXXV. **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 (Journal Indexed in SCI)
- XXXVI. **Study of the electron densities of some food products dried using the new method**  
Nuroglu E., Bursalioglu E. O. , Karabul Y., Bakrdere S., İçelli O.  
DRYING TECHNOLOGY, vol.34, pp.1445-1454, 2016 (Journal Indexed in SCI)

- XXXVII. **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 (Journal Indexed in SCI)
- XXXVIII. **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, pp.285-290, 2015 (Journal Indexed in SCI)
- XXXIX. **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, pp.545-552, 2014 (Journal Indexed in SCI)
- XL. **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 (Journal Indexed in SCI)
- XLI. **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 (Journal Indexed in SCI)
- XLII. **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 (Journal Indexed in SCI)
- XLIII. **Energy Absorption and Exposure Buildup Factors of Essential Amino Acids**  
Bursalıoglu E., Balkan B., Kavanoz H. B. , Okutan M., İçelli O., Yalçın Z.  
BIOMED RESEARCH INTERNATIONAL, 2014 (Journal Indexed in SCI)
- XLIV. **Resistivity, ESR, and Radiation Shielding Properties of the Volcanic Rock Materials**  
NUHOĞLU Ç., Tapan M., OKUTAN M., AYDIN S., YALÇIN Z., İÇELLİ O., KAVANOZ H. B. , Orak S.  
ADVANCES IN CONDENSED MATTER PHYSICS, 2014 (Journal Indexed in SCI)
- XLV. **Resistivity, ESR, and Radiation Shielding Properties of the Volcanic Rock Materials**  
Nuhoğlu Ç., Tapan M., Okutan M., Aydın S., Yalçın Z., İçelli O., Kavanoz H. B. , Orak S.  
ADVANCES IN CONDENSED MATTER PHYSICS, 2014 (Journal Indexed in SCI)
- XLVI. **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 (Journal Indexed in SCI)
- XLVII. **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 (Journal Indexed in SCI)
- XLVIII. **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 (Journal Indexed in SCI)
- XLIX. **A different perspective to the effective atomic number ( $Z_{eff}$ ) 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.  
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.686, pp.43-47, 2012 (Journal Indexed in SCI)
- L. **Determination of photon energy absorption parameters for pellet waste, trommel sieve waste and original tinalconite**  
İçelli O., Yalçın Z., Okutan M., Boncukcuoglu R.  
ANNALS OF NUCLEAR ENERGY, vol.47, pp.38-45, 2012 (Journal Indexed in SCI)
- LI. **Photon energy absorption parameters for composite mixtures with boron compounds**  
Bastug A., İÇELLİ O., GÜROL A., Sahin Y.  
ANNALS OF NUCLEAR ENERGY, vol.38, pp.2283-2290, 2011 (Journal Indexed in SCI)

- LII. **?X-ray spectroscopic evaluation of zinc at different applied pressure**  
İÇELLİ O.  
INTERNATIONAL JOURNAL OF PHYSICAL SCIENCES, vol.6, pp.5837-5842, 2011 (Journal Indexed in SCI Expanded)
- LIII. **The determination of the total mass attenuation coefficients and the effective atomic numbers for concentrated colemanite and Emet colemanite clay**  
İçelli O., Yalçın Z., Okutan M., Boncukcuoglu R., Sen A.  
ANNALS OF NUCLEAR ENERGY, vol.38, pp.2079-2085, 2011 (Journal Indexed in SCI)
- LIV. **Determination of transmission factors of concretes with different water/cement ratio, curing condition, and dosage of cement and air entraining agent**  
ŞAHİN R., POLAT R., İÇELLİ O., ÇELİK C.  
ANNALS OF NUCLEAR ENERGY, vol.38, pp.1505-1511, 2011 (Journal Indexed in SCI)
- LV. **The absorption jump factor of effective atomic number and electronic density for some barium compounds**  
POLAT R., YALÇIN Z., İÇELLİ O.  
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.629, pp.185-191, 2011 (Journal Indexed in SCI)
- LVI. **A new term "J(z<sub>eff</sub>)" derived from measured total attenuation coefficients of photons near the absorption edges of some compounds**  
POLAT R., İÇELLİ O.  
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.621, pp.358-363, 2010 (Journal Indexed in SCI)
- LVII. **Effective atomic numbers of some composite mixtures including borax**  
Bastug A., GÜROL A., İÇELLİ O., Sahin Y.  
ANNALS OF NUCLEAR ENERGY, vol.37, pp.927-933, 2010 (Journal Indexed in SCI)
- LVIII. **Measurement of the effective atomic numbers of compounds with cerium near to the absorption edge**  
POLAT R., İÇELLİ O.  
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.615, pp.201-210, 2010 (Journal Indexed in SCI)
- LIX. **An experimental study on the linear differential scattering coefficients of the Trommel Sieve Waste (TSW)**  
İÇELLİ O., Boncukcuoglu R.  
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- LX. **An experimental study on the linear differential scattering coefficients of the GaAs, n- and p-type Si**  
Icelli O., Cankaya G., Cetin A.  
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- LXI. **Measurement of effective atomic numbers of holmium doped and undoped layered semiconductors via transmission method around the absorption edge**  
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NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.600, pp.635-639, 2009 (Journal Indexed in SCI)
- LXII. **Measurements of the total molecular differential attenuation coefficients of some compounds for scattering of gamma-rays**  
Icelli O.  
ANNALS OF NUCLEAR ENERGY, vol.35, pp.2327-2331, 2008 (Journal Indexed in SCI)
- LXIII. **Determination of molecular, atomic, electronic cross-sections and effective atomic number of some boron compounds and TSW**  
Icelli O., Erzeneoglu S., Boncukcuoglu R.  
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IX. **Mechanical Performance of PP/BiSr<sub>2</sub>CaCu<sub>2</sub>O<sub>6.5</sub> Composites**

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X. **As A Negative Dielectric Constant Material Eu<sub>0.7</sub>Bi<sub>0.3</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>6.5</sub>**

Katma C., Karabul Y., Kılıç M., Güven Özdemir Z., İçelli O.

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XI. **Complex Impedance and Dielectric Spectra of Epoxy/Kufeki Stone Composites**

Topuz S., Karabul Y., Kılıç M., Güven Özdemir Z., İçelli O.

Turkish Physical Society 34th International Physical Congress, Muğla, Turkey, 5 - 09 September 2018, pp.452

XII. **Radiation Shielding Ability of Basalt Reinforced Epoxy**

Kara H., Karabul Y., Kılıç M., Güven Özdemir Z., İçelli O.

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XIII. **Classification of breast cancer patients' blood samples using machine learning algorithms**

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XIV. **Prediction Of Breast Cancer Pattern Using Artificial Neural Network Algorithms**

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XV. **Investigation of g-Ray Shielding Parameters of Na<sub>2</sub>Si<sub>3</sub>O<sub>7</sub>/Bi<sub>2</sub>O<sub>3</sub> Glassy Composites**

Demirbay T., Karabul Y., Kılıç M., Güven Özdemir Z., İçelli O.

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XVI. **As a Shielding Glassy Structures Against Gamma Rays: Epoxy/PbO And Epoxy/BaO Composites**

Ergin Y., Karabul Y., Kılıç M., Güven Özdemir Z., İçelli O.

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XVII. **X-Ray Shielding Performance of Sodium Silicate/Barium Oxide Glassy Composites**

Kayacık H., Karabul Y., Kılıç M., Güven Özdemir Z., İçelli O.

Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT 2018), Antalya, Turkey, 20 - 22 April 2018, pp.53

XVIII. **Effect of Boric Acid Doped Pedot:PSS Layer on the Photovoltaic Parameters of P3HT:PCBM Based PV Cell**

Eyecioglu O., Beken M., Yağcı Ö., İÇELLİ O.

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- XXI. **Study of electron density via some elements in breast cancer patients' blood samples**  
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- XXII. **İntraoperatif Radyoterapi Doz Hesaplama Sisteminde Kullanılan Transfer Katsayılarının Monte Carlo Simülasyonu ile Doğrulanması**  
İÇELLİ O., Çađlar M., Eşitmez D., Cebe M. S. , Demir H. A.  
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2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), Nevşehir, Turkey, 11 October 2017, pp.321
- XXIV. **Sodium Silicate/Wolfram Glassy Composites: Investigation of Shielding and Dielectric Parameters**  
KARABUL Y., KILIÇ M., GÜVEN ÖZDEMİR Z., Çađlar M., İÇELLİ O.  
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- XXV. **Enhance of The Radiation Shielding Performance of Concrete with Kufeki Stone Additive**  
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- XXVI. **Mechanical and Dielectric Properties of Polypropylene Composites Filled Borax**  
Alkan Ü., Kılıç M., Karabul Y., İçelli O.  
Turkish Physical Society 33rd International Physics Congress, Muđla, Turkey, 06 September 2017, pp.515
- XXVII. **Mechanical and Dielectric Properties of Low Density Polyethylene/Borax Compsites**  
Alkan Ü., Kılıç M., Karabul Y., İçelli O.  
Turkish Physical Society 33rd International Physics Congress, Muđla, Turkey, 06 September 2017, pp.177
- XXVIII. **The Effect of PANI on the PP Thick Film in terms of Dielectric and Mechanical Properties**  
Kılıç M., Alkan Ü., Karabul Y., İçelli O.  
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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>**  
Güven Özdemir Z., Kılıç M., Karabul Y., Süngü Mısırhođlu B., Aslan Çataltepe Ö., İçelli O.  
2nd International Congress on The World of Technology and Advanced Materials (WITAM-2016), Kırşehir, Turkey, 28 September - 02 October 2016, pp.161
- XXXI. **Eu-Ba-Ca-Cu-O Perovskite Material as a Negative Temperature Coefficient Thermistor**  
Güven Özdemir Z., Kılıç M., Karabul Y., Süngü Mısırhođlu B., Aslan Çataltepe Ö., İçelli O.  
2nd International Congress on The World of Technology and Advanced Materials (WITAM-2016), Kırşehir, Turkey, 28 September - 02 October 2016, pp.160
- XXXII. **Effect of Low Dose Gamma Radiation on Boricacid doped PEDOT PSS films**  
YAĐCI Ö., YEŞİLKAYA S. S. , İÇELLİ O.  
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- XXXIII. **Use of boron mineral wastes in the photovoltaic applications**  
YAĞCI Ö., YEŞİLKAYA S. S. , İÇELLİ O.  
TFD31, 21 - 24 July 2016
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Kılıç M., Karabul Y., Alkan Ü., Okutan M., Bakırdere S., İçelli O.  
2nd International Conference on Organic Electronic Material Technologies (OEMT-2016), Çanakkale, Turkey, 17 May 2016, pp.102
- XXXV. **Magnetic Field Effect on Electrical Properties of Conducting PANI Cu Composites**  
KARABUL Y., KILIÇ M., OKUTAN M., BAKIRDERE S., İÇELLİ O.  
oemt2016, 17 - 19 May 2016
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Kılıç M., Karabul Y., Erdönmez S., Bulgurcuoğlu A. E. , Yağcı Ö., Alkan Ü., Okutan M., İçelli O.  
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- XXXVII. **Impedance Properties of Conducting Polymers Basalt Composites Under Magnetic Field**  
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1st International Physics Conference at the Anatolian Peak, IPCAP 2016, Erzurum, Turkey, 25 - 27 February 2016, vol.707
- XXXIX. **Correlation between ratio of Na K Se Zn K P Cu Zn Se Fe Ca P at breast cancer patients blood samples which exposed to radiation and their electron density**  
Toker O., KARABUL Y., BURSALIOGLU E. O. , BAKIRDERE S., İÇELLİ O., Saribal Kanber D.  
The first International Physics Conference at the Anatolian Peak, Erzurum, Turkey, 25 February 2016, pp.294
- XL. **Dielectric Characterization of Some Basalt Materials under Magnetic Field**  
Meltem Ç., Kılıç M., Karabul Y., Yılmaz Canlı N., Alkan Ü., Okutan M., İçelli O.  
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- XLI. **A Comprehensive Study on Effect of Gamma Radiation for Basalt Reinforced Low Density Polyethylene**  
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- XLVI. **Electrical Properties of Some Basalt Materials under Magnetic Field**  
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**XLVII. Electrical mechanism of Basalts with Polyaniline pani composites**

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TFD 31 ULUSLARARASI FİZİK KONGRESİ, Muğla, Turkey, 21 - 24 July 2014, pp.186

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30. ULUSLARARASI FİZİK KONGRESİ, İstanbul, Turkey, 05 September 2013, pp.100

**LVI. First Principles Calculations on AgCuS Stromeayerite Mineral**

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**LIX. Dielectric Constant and Dissipation Factor Measurement of Propertit Powders by Dielectric Spectroscopy**

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- LXVI. **Koherent ve Compton Saçılma Diferansiyel Tesir Kesitleri Oranlarının 55° ve 115° için  $26 < Z < 82$  Atomik Element Bölgesinde Atom Numarasına Göre Değişimi**  
İÇELLİ O.  
TFD 18. Turkish International Physics Conference, 01 October 1999
- LXVII. **Al, Fe, Zn, Nb, Sn ve Ta Elementlerinin İnkohherent Saçılma Fonksiyonu**  
İÇELLİ O.  
TFD 18 Turkish International Physics Conference, 01 October 1999
- LXVIII. **Foton-momentum transferinde atomik form faktörlerinin ölçülmesi**  
İÇELLİ O.  
II. Ulusal Atom ve Molekül Fiziği Sempozyumu, 01 September 1998
- LXIX. **Au Tarafından 59,5 keV'lik Gama Işınlarnın Rayleigh Saçılması**  
İÇELLİ O.  
II. Ulusal Atom ve Molekül Fiziği Sempozyumu, 01 September 1998
- LXX. **Ta, W Au Elementlerinin  $L_1, L_2, L_3, L_4$  X-ışını üretim tesir kesitlerinin ölçülmesi**  
İÇELLİ O.  
II. Ulusal Atom ve Molekül Fiziği Sempozyumu, 01 September 1998

## Supported Projects

İÇELLİ O., TUBITAK Project, Buildup Faktörlerini Hesaplayabilen Yazılım Paketinin Geliştirilmesi, 2015 - Continues  
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 Hastaların Kan Örneklerinde Sodyum/Potasyum (Na/K) Oranı ile Elektron Yoğunluğu Arasında Korelasyon, 2015 - 2018

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 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, Borikası Katkılanmış ve Gama Işını Dozlanmış PEDOT:PSS Tabakasının P3HT:PCBM Esaslı Ftovoltaik Hücrelerde Kullanılması, 2013 - 2016

İÇELLİ O., YAĞCI Ö., 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 Supported Projects, Bor Atıklarından Faydalanarak Dielektrik Spektroskopi Metodu ile Elektriksel ve Yapısal Özelliklerinin Tayin Edilmesi, 2011 - 2013

## Patent

İÇELLİ O., YEŞİLKAYA S. S. , YAĞCI Ö., Usage of Boric Acid in the Production of PEPOT:PSS Film, Patent, CHAPTER G Physics, Initial Registration, 2018

İçelli O., Güneş S., Aydın Yüksel S., Yeşilkaya S. S. , Yağcı Ö., Okutan M., Ongül F., Bozar S., USAGE OF BORIC ACID IN THE PRODUCTION OF PEDOT:PSS FILM, Patent, CHAPTER G Physics, Initial Registration, 2016

## 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

## Citations

Total Citations (WOS):420

h-index (WOS):12

## Invited Talks

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

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

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