

Prof. ÖZCAN GÜNDOĞDU

Personal Information

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Education Information

Doctorate, University of Birmingham, School of Physics and Astronomy, Physics, England 1993 - 1998

Postgraduate, University of Birmingham, Earth Sciences, England 1990 - 1992

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Turkey 1983 - 1988

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Multiple Particle Tracking using Birmingham MWPC positron camera, University of Birmingham, School of Physics and Astronomy, Applied Physics, 1998

Postgraduate, Underground water system in Merseyside region using radioactive tracers, University of Birmingham, School of Earth Sciences, 1992

Research Areas

Biomedical Engineering, bioPhotonic, Biomedical Image Processing, Physics, Nuclear physics, Radioactive decay and in-beam spectroscopy, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Professor, Kocaeli University, Teknoloji Fakültesi, Biyomedikal Mühendisliği, 2013 - Continues

Associate Professor, Kocaeli University, Teknoloji Fakültesi, Biyomedikal Mühendisliği, 2009 - 2013

Associate Professor, University of Surrey, Royal Surrey County Hospital, St Lukes Cancer Centre, 2007 - 2009

Expert PhD, University of Surrey, School Of Physics And Engineering, Department Of Physics, 2005 - 2007

Expert PhD, University of Surrey, School Of Engineering, Process Engineering, 2003 - 2005

Expert PhD, Kingston University, Faculty Of Technology, Dept. Of Mathematics, 2001 - 2003

Expert, University of Birmingham, School Of Physics And Astronomy, School Of Physics And Astronomy, 1992 - 1993

Academic and Administrative Experience

Rektörlük Kalite Komisyonu Üyesi, Kocaeli University, Teknoloji Fakültesi, Biyomedikal Mühendisliği, 2016 - Continues

Manager of Research and Application Center, Kocaeli University, Teknoloji Fakültesi, Biyomedikal Mühendisliği, 2016 -

Continues

Kocaeli Üniversitesi, Teknoloji Fakültesi, Biyomedikal Mühendisliği Bölümü, 2013 - Continues

Dean, Kocaeli University, Denizcilik Fakültesi, 2016 - 2019

Director of Vocational School, Kocaeli University, Barbaros Denizcilik Yüksekokulu, 2015 - 2019

Kocaeli Üniversitesi, Barbaros Denizcilik Yüksekokulu, 2009 - 2015

Rektörlüğe Bağlı Birim Başkanı, Kocaeli University, Teknoloji Fakültesi, Biyomedikal Mühendisliği, 2009 - 2014

Courses

BİYOMALZEME, Undergraduate

BİYOMALZEMELER, Doctorate

TIBBİ GÖRÜNTÜLEME, Doctorate

BİYOMEDİKAL MÜHENDİSLİĞE GİRİŞ, Undergraduate

Biyopolimerler, Doctorate

Mathematics, Undergraduate

Advising Theses

Gündoğdu Ö., Mrg difüzyon kurtosis metodu ile farklı dokuların görüntülenmesi: kanserli ve nörolojik olgulara uygulaması, Doctorate, S.ŞAHİN(Student), 2020

Gündoğdu Ö., Test Kabinlerinde Nem Kontrolü Performansı Üzerine İyileştirme Çalışmaları, Postgraduate, S.KOÇOĞLU(Student), 2019

Gündoğdu Ö., Dijital mamografi cihazlarında kalite kontrol ölçümleri ve görüntü kalitesinin değerlendirilmesi, Postgraduate, R.ŞANLI(Student), 2019

Gündoğdu Ö., RADYOTERAPİDE SRS/SBRT UYGULAMALARINDA FARKLI DOZ FRAKSİYONASYONLARININ VE DEĞİŞEN DOZ HIZLI TEDAVİ TEKNİKLERİNİN RADYOBİYOLOJİK ETKİSİ: FARKLI HÜCRE KÜLTÜRLERİ İLE IN VİTRO ÇALIŞMA, Doctorate, C.CEYLAN(Student), 2019

Gündoğdu Ö., Hareketli eklem kırıkdağının yapısal ve elementel karakterizasyonunun yapılması, Doctorate, T.ÇAYIR(Student), 2018

Gündoğdu Ö., Dijital mamografi (FFDM) sistemlerinin kabul testleri ve teknik değerlendirmesi, Postgraduate, M.KAYA(Student), 2016

Gündoğdu Ö., Cs atomik saatine kilitli taşınabilir optik frekans tarağı üretici sistemi geliştirilmesi, Postgraduate, O.KARA(Student), 2013

Gündoğdu Ö., Bradley D., Elemental and orientational feature variations at the bone–cartilage interface of articular cartilage, Postgraduate, A.AI(Student), 2008

Taught Courses And Trainings

Gündoğdu Ö., Medişoğlu S., Badr I., Tıbbi görüntüleme Radyasyon Güvenliği ve Kalite Güvencesi, 2014 - 2014

Education Infrastructure Information

Gündoğdu Ö., Arslan O., Arıcan O. H. , Denizde Güvenlik Laboratuvarı, July 2018

Gündoğdu Ö., Arslan O., Arıcan O. H. , Maritime Simulation Centre, May 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Efficiency of modulated and dose rate altered flattening filter free beams in high dose per fraction radiotherapy applications on the survival of prostate cancer cell lines**
Ceylan C., Öztürk A. S. , Gungor G., Karabey A. U. , Sahin S., Duruksu G., Yazır Y., Aksu M. G. , Gündoğdu Ö.
INTERNATIONAL JOURNAL OF RADIATION RESEARCH, vol.19, no.4, pp.879-889, 2021 (Journal Indexed in SCI)
- II. **Screening parameter for elastic scattering of electrons**
Yalçın S., Akar Tarım Ü., Gürler O., Gündoğdu Ö., Bradley D. A.
Radiation Effects And Defects In Solids, vol.1, no.1, pp.100-107, 2021 (Journal Indexed in SCI)
- III. **Quantifying the influences of radiation therapy on deformability of human red blood cells by dual-beam optical tweezers**
Inanc M. T. , Demirkan I., Ceylan C., Özkan A., Gündoğdu Ö., Goreke U., Gurkan U. A. , Ünlü M. B.
RSC Advances, vol.11, pp.15519-15527, 2021 (Journal Indexed in SCI Expanded)
- IV. **Multifunctional poly(N-methylpyrrole)/nano-oxide composites: Optoelectronic, charge transport and antibacterial properties**
Özkazanç H., Menkuer M., Gündoğdu Ö., Özkazanç E.
Polymer, vol.189, 2020 (Journal Indexed in SCI)
- V. **Determination of radiation dose from patients undergoing Tc-99m Sestamibi nuclear cardiac imaging**
Gunay O., Sarihan M., Yazar O., Abuqbeidah M., Demir M., Sonmezoglu K., Abamor E., Kara O. E. , Isikci N. I. , Akozcan S., et al.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.16, no.9, pp.5251-5258, 2019 (Journal Indexed in SCI)
- VI. **Characterization and Charge Transport Mechanism of Multifunctional Polyfuran/Tin(IV) Oxide Composite**
ÖZKAZANÇ E., ÖZKAZANÇ H., GÜNDOĞDU Ö.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.28, no.5, pp.2108-2120, 2018 (Journal Indexed in SCI)
- VII. **Surface Cleaning of Metals Using Low Power Fiber Lasers**
Kayahan E., Candan L., Aras M., Gündoğdu Ö.
Acta Physica Polonica A, vol.134, no.1, pp.371-373, 2018 (Journal Indexed in SCI)
- VIII. **Surface Cleaning of Metals Using Low Power Fiber Lasers**
KAYAHAN E., CANDAN L., ARAS M., GÜNDOĞDU Ö.
ACTA PHYSICA POLONICA A, vol.134, no.1, pp.371-373, 2018 (Journal Indexed in SCI)
- IX. **Surface Cleaning of Metals Using Low Power Fiber Lasers**
Kayahan E., Candan L., Aras M., Gündoğdu Ö.
Acta Physica Polonica A, vol.134, no.1, pp.371-373, 2018 (Journal Indexed in SCI)
- X. **Evaluation of gamma-ray attenuation properties of bismuth borate glass systems using Monte Carlo method**
Tarım U. A. , Ozmutlu E. N. , Yalcin S., GÜNDOĞDU Ö., Bradley D. A. , Gurler O.
RADIATION PHYSICS AND CHEMISTRY, vol.140, pp.403-405, 2017 (Journal Indexed in SCI)
- XI. **Monte Carlo Calculations for Photon Attenuation Studies on Different Solid Phantom Materials**
GÜNDOĞDU Ö., Tarım U. A. , Gurler O.
ACTA PHYSICA POLONICA A, vol.132, no.3, pp.1032-1035, 2017 (Journal Indexed in SCI)
- XII. **Study of the fragmentation phenomena of TiO₂ nanoparticles produced by femtosecond laser ablation in aqueous media**
Alnassar S., Akman E., Oztoprak B., Kaçar E., Gündoğdu Ö., Khaleel A., Demir A.
Optics and Laser Technology, vol.51, pp.17-23, 2013 (Journal Indexed in SCI)
- XIII. **Monte Carlo modelling of single and multiple Compton scattering profiles in a concrete material**
Tarım U. A. , Ozmutlu E. N. , Gurler O., Yalcin S., GÜNDOĞDU Ö., Sharaf J. M. , Bradley D. A.
RADIATION PHYSICS AND CHEMISTRY, vol.85, pp.12-17, 2013 (Journal Indexed in SCI)
- XIV. **Evaluation of PMMA joining to stainless steel 304 using pulsed Nd:YAG laser**
Hussein F. I. , Akman E., Genç Öztoprak B., Gunes M., Gündoğdu Ö., Kaçar E., Hajım K., Demir A.
Optics and Laser Technology, vol.49, pp.143-152, 2013 (Journal Indexed in SCI)

- XV. **Fragmentation of the gold nanoparticles using femtosecond Ti:Sapphire laser and their structural evolution**
Akman E., Aktas O., Genç Öztoprak B., Gunes M., Kaçar E., Gündoğdu Ö., Demir A.
Optics and Laser Technology, vol.49, pp.156-160, 2013 (Journal Indexed in SCI)
- XVI. **Laser welding of copper with stellite 6 powder and investigation using LIBS technique**
Genç Öztoprak B., Akman E., Hanon M., Gunes M., Gümüş S., Kaçar E., Gündoğdu Ö., Zeren M., Demir A.
Optics and Laser Technology, vol.45, pp.748-755, 2013 (Journal Indexed in SCI)
- XVII. **Analysis and Classification of Heterogeneous Kidney Stones Using Laser-Induced Breakdown Spectroscopy (LIBS)**
Oztoprak B., Gonzalez J., Yoo J., Gulecen T., MUTLU N., Russo R. E., GÜNDOĞDU Ö., DEMİR A.
APPLIED SPECTROSCOPY, vol.66, no.11, pp.1353-1361, 2012 (Journal Indexed in SCI)
- XVIII. **The energy spectrum of 662 keV photons in a water equivalent phantom**
Tarim U. A., Gurler O., Ozmutlu E. N., Yalcin S., GÜNDOĞDU Ö., Sharaf J. M., Bradley D. A.
RADIATION PHYSICS AND CHEMISTRY, vol.81, no.7, pp.745-748, 2012 (Journal Indexed in SCI)
- XIX. **Evaluation of radon concentration in well and tap waters in Bursa, Turkey**
Tarim U. A., Gurler O., Akkaya G., Kilic N., Yalcin S., Kaynak G., GÜNDOĞDU Ö.
RADIATION PROTECTION DOSIMETRY, vol.150, no.2, pp.207-212, 2012 (Journal Indexed in SCI)
- XX. **Experimental and theoretical investigation of the drilling of alumina ceramic using Nd:YAG pulsed laser**
Hanon M., Akman E., Genç Öztoprak B., Gunes M., Taha Z., Hajim K., Kaçar E., Gündoğdu Ö., Demir A.
Optics and Laser Technology, vol.44, pp.913-922, 2012 (Journal Indexed in SCI)
- XXI. **MEASUREMENTS OF RADIUM LEVELS IN BOTTLED NATURAL SPRING WATER OF MARMARAREGION TURKEY**
Akar U., Gürler O., Kahraman A., Yaçın S., Kaynak Z. G., Gündoğdu Ö.
Romanian Journal Of Physics, vol.57, pp.1204-1210, 2012 (Journal Indexed in SCI Expanded)
- XXII. **A practical method for in-situ thickness determination using energy distribution of beta particles**
Yalcin S., Gurler O., GÜNDOĞDU Ö., Bradley D. A.
APPLIED RADIATION AND ISOTOPES, vol.70, no.1, pp.128-132, 2012 (Journal Indexed in SCI)
- XXIII. **Phase contrast imaging: Effect of increased object-detector distances at X-ray diagnostic and megavoltage energies**
Loveland J., Gundogdu Ö., Morton E., Wells K., Bradley D. A.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.652, no.1, pp.625-629, 2011 (Journal Indexed in SCI)
- XXIV. **Elemental and structural studies at the bone-cartilage interface**
Kaabar W., Daar E., Bunk O., Farquharson M. J., Laklouk A., Bailey M., Jeynes C., GÜNDOĞDU Ö., Bradley D. A.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.652, no.1, pp.786-790, 2011 (Journal Indexed in SCI)
- XXV. **Analytical investigation of energy spectrums of beta rays emitted from Sr-90 and Tl-204 radioisotopes**
Yalcin S., Gurler O., GÜNDOĞDU Ö., Akar U.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.289, no.3, pp.923-926, 2011 (Journal Indexed in SCI)
- XXVI. **Parental attitudes and varicella vaccine in Kocaeli, Turkey**
Gundogdu Z., Gundogdu Ö.
PREVENTIVE MEDICINE, vol.52, pp.278-280, 2011 (Journal Indexed in SCI)
- XXVII. **Measurements of radon concentration in drinking water samples from Kastamonu (Turkey)**
Yalcin S., Gurler O., Tarim U. A., Incirci F., Kaynak G., GÜNDOĞDU Ö.
ISOTOPES IN ENVIRONMENTAL AND HEALTH STUDIES, vol.47, no.4, pp.438-445, 2011 (Journal Indexed in SCI)
- XXVIII. **Synchrotron and ion beam studies of the bone-cartilage interface**
Bradley D. A., Kaabar W., Gundogdu Ö., Farquharson M. J., Janousch M., Bailey M., Jeynes C.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS

- DETECTORS AND ASSOCIATED EQUIPMENT, vol.619, pp.330-337, 2010 (Journal Indexed in SCI)
- XXIX. **mu-PIXE and SAXS studies at the bone-cartilage interface**
Kaabar W., GÜNDOĞDU Ö., Laklouk A., Bunk O., Pfeiffer F., Farquharson M. J. , Bradley D. A.
APPLIED RADIATION AND ISOTOPES, vol.68, pp.730-734, 2010 (Journal Indexed in SCI)
- XXX. **X-ray phase contrast imaging of the bone-cartilage interface**
Ismail E. C. , Kaabar W., Garrity D., Gundogdu Ö., Bunk O., Pfeiffer F., Farquharson M. J. , Bradley D. A.
APPLIED RADIATION AND ISOTOPES, vol.68, pp.767-771, 2010 (Journal Indexed in SCI)
- XXXI. **Applications of condensed matter understanding to medical tissues and disease progression: Elemental analysis and structural integrity of tissue scaffolds**
Bradley D. A. , Farquharson M. J. , Gundogdu Ö., Al-Ebraheem A., Ismail E. C. , Kaabar W., Bunk O., Pfeiffer F., Falkenberge G., Bailey M.
RADIATION PHYSICS AND CHEMISTRY, vol.79, no.2, pp.162-175, 2010 (Journal Indexed in SCI)
- XXXII. **Measurement of surface roughness of metals using binary speckle image analysis**
Kayahan E., Oktem H., Hacizade F., Nasibov H., Gundogdu Ö.
TRIBOLOGY INTERNATIONAL, vol.43, pp.307-311, 2010 (Journal Indexed in SCI)
- XXXIII. **MEASUREMENTS OF RADON LEVELS IN THERMAL WATERS OF BURSA, TURKEY**
Gurler O., Akar U., Kahraman A., Yalcin S., Kaynak G., Gundogdu Ö.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.19, pp.3013-3017, 2010 (Journal Indexed in SCI)
- XXXIV. **Calculation of angular distribution of 662 keV gamma rays by Monte Carlo method in copper medium**
Kahraman A., Ozmutlu E. N. , Gurler O., Yalcin S., Kaynak G., GÜNDOĞDU Ö.
APPLIED RADIATION AND ISOTOPES, vol.67, no.12, pp.2083-2087, 2009 (Journal Indexed in SCI)
- XXXV. **A Study of the Inherent Limitations of Image Fusion Software in Volume Delineation for Radiotherapy**
Dalal E., Gundogdu Ö., Bradley D., Nisbet A.
CLINICAL ONCOLOGY, vol.21, no.3, pp.267, 2009 (Journal Indexed in SCI)
- XXXVI. **Making Clear the Imperceptible: In-Line X-ray Phase Contrast Imaging**
GÜNDOĞDU Ö., Ismail E. C. , JENNESON P., BRADLEY D. A.
ADVANCED SCIENCE LETTERS, vol.2, no.1, pp.78-80, 2009 (Journal Indexed in SCI)
- XXXVII. **Metal deposition at the bone-cartilage interface in articular cartilage**
Kaabar W., Daar E., Gundogdu Ö., Jenneson P. M. , Farquharson M. J. , Webb M., Jeynes C., Bradley D. A.
APPLIED RADIATION AND ISOTOPES, vol.67, no.3, pp.475-479, 2009 (Journal Indexed in SCI)
- XXXVIII. **Investigation of environmental contamination in lichens of Gokceada (Imbroz) Island in Turkey**
Kahraman A., Kaynak G., Gurler O., Yalcin S., Ozturk S., Gundogdu Ö.
RADIATION MEASUREMENTS, vol.44, no.2, pp.199-202, 2009 (Journal Indexed in SCI)
- XXXIX. **Mass absorption and mass energy transfer coefficients for 0.4-10 MeV gamma rays in elemental solids and gases**
Gurler O., Oz H., Yalcin S., Gundogdu Ö.
APPLIED RADIATION AND ISOTOPES, vol.67, no.1, pp.201-205, 2009 (Journal Indexed in SCI)
- XL. **Monte Carlo simulation of gamma-ray total counting efficiency for a Phoswich detector**
Yalcin S., Gurler O., Gundogdu Ö., Kaynak G.
RADIATION MEASUREMENTS, vol.44, no.1, pp.80-85, 2009 (Journal Indexed in SCI)
- XLI. **Understanding Nanoagglomerates**
Gundogdu Ö., Jenneson P. M.
ADVANCED SCIENCE LETTERS, vol.1, no.2, pp.161-164, 2008 (Journal Indexed in SCI)
- XLII. **Nanoparticle structural organisation and scaffolding in organic media**
Gundogdu Ö., Roso M., Stevens G. C. , Tuezuen U.
GRANULAR MATTER, vol.10, no.2, pp.123-132, 2008 (Journal Indexed in SCI)
- XLIII. **The localisation of biologically important metals in soft and calcified tissues using a synchrotron x-ray fluorescence technique**
Geraki K., Farquharson M. J. , Bradley D. A. , Gundogdu Ö., Falkenberg G.

X-RAY SPECTROMETRY, vol.37, no.1, pp.12-20, 2008 (Journal Indexed in SCI)

- XLIV. **Benchmark phase-contrast X-ray imaging**
Gundogdu Ö., Nirgianaki E., Ismail E. C., Jenneson P. M., Bradley D. A.
APPLIED RADIATION AND ISOTOPES, vol.65, no.12, pp.1337-1344, 2007 (Journal Indexed in SCI)
- XLV. **Calculation of total counting efficiency of a NaI(Tl) detector by hybrid Monte-Carlo method for point and disk sources**
Yalcin S., Gurler O., Kaynak G., Gundogdu Ö.
APPLIED RADIATION AND ISOTOPES, vol.65, no.10, pp.1179-1186, 2007 (Journal Indexed in SCI)
- XLVI. **Nano particle fluidisation in model 2-D and 3-D beds using high speed X-ray imaging and microtomography**
Gundogdu Ö., Jenneson P. M., Tuzun U.
JOURNAL OF NANOPARTICLE RESEARCH, vol.9, no.2, pp.215-223, 2007 (Journal Indexed in SCI)
- XLVII. **Monitoring intermediate processing of polymer-silica hybrid nanoparticle clusters by X-ray microtomography**
Gundogdu Ö., Jenneson P. M., Tuzun U., Gray G. M., Hay J. N.
CHEMICAL ENGINEERING COMMUNICATIONS, vol.194, no.7, pp.881-892, 2007 (Journal Indexed in SCI)
- XLVIII. **Probing the microstructural evolution of polyviologen-silica hybrid nanopowders during intermediate processing using X-ray microtomography**
Gundogdu Ö., Jenneson P. M., Tuzun U., Gray G. M., Hay J. N.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.85, no.3, pp.317-324, 2006 (Journal Indexed in SCI)
- XLIX. **An analytical expression for electron elastic scattering cross section from atoms and molecules in 1.0 keV to 1.0 MeV energy range**
Yalcin S., Gurler O., Gultekin A., Gundogdu Ö.
PHYSICS LETTERS A, vol.356, no.2, pp.138-145, 2006 (Journal Indexed in SCI)
- L. **Photon mass energy absorption coefficients from 0.4 MeV to 10 MeV for silicon, carbon, copper and sodium iodide**
Oz H., Gurler O., Gultekin A., Yalcin S., Gundogdu Ö.
JOURNAL OF THE KOREAN PHYSICAL SOCIETY, vol.49, no.1, pp.73-76, 2006 (Journal Indexed in SCI)
- LI. **An approximate analytical solution for the energy distribution of beta particles transmitted through metal foils**
Gurler O., Yalcin S., Gultekin A., Kaynak G., Gundogdu Ö.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.245, no.2, pp.347-354, 2006 (Journal Indexed in SCI)
- LII. **In situ x-ray imaging of nanoparticle agglomeration in fluidized beds**
Jenneson P., Gundogdu Ö.
APPLIED PHYSICS LETTERS, vol.88, no.3, 2006 (Journal Indexed in SCI)
- LIII. **Positron emission zone plate holography for particle tracking**
Gundogdu Ö.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.556, no.2, pp.624-640, 2006 (Journal Indexed in SCI)
- LIV. **Positron emission tomography particle tracking using cluster analysis**
Gundogdu Ö.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, vol.534, no.3, pp.562-576, 2004 (Journal Indexed in SCI)
- LV. **Examining nanoparticle assemblies using high spatial resolution x-ray microtomography**
Jenneson P., Luggar R., Morton E., Gundogdu Ö., Tuzun U.
JOURNAL OF APPLIED PHYSICS, vol.96, no.5, pp.2889-2894, 2004 (Journal Indexed in SCI)
- LVI. **Location-allocation algorithm for multiple particle tracking using Birmingham MWPC positron camera**
Gundogdu Ö., Tarcan E.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS

- DETECTORS AND ASSOCIATED EQUIPMENT, vol.523, pp.223-233, 2004 (Journal Indexed in SCI)
- LVII. **Vibration-assisted dead-end filtration experiments and theoretical concepts**
Gundogdu Ö., Koenders M., Wakeman R., Wu P.
CHEMICAL ENGINEERING RESEARCH & DESIGN, vol.81, pp.916-923, 2003 (Journal Indexed in SCI)
- LVIII. **Permeation through a bed on a vibrating medium: theory and experimental results**
Gundogdu Ö., Koenders M., Wakeman R., Wu P.
CHEMICAL ENGINEERING SCIENCE, vol.58, no.9, pp.1703-1713, 2003 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Development of Personal Protective Respirator Based on Additive Manufacturing Technologies in Fighting Against Pandemic**
Aydm L., İlkin S., Arıcan M. O. , Peker Karatoprak A., Şahin S., Özkoç G., Aksu M. G. , Küçük S., Gündoğdu Ö.
Kocaeli Journal of Science and Engineering, vol.4, no.1, pp.24-38, 2021 (National Refereed University Journal)
- II. **Bilgisayarlı Tomografi Çekimlerinde Lens Tiroid ve Oral Mukoza Absorbe Radyasyon Doz Düzeylerinin Belirlenmesi: Fantom Çalışması**
GÜNAY O., GÜNDOĞDU Ö., DEMİR M., TİMLİOĞLU İPER H. S. , KURU L. İ. , YAŞAR D., AKÖZCAN S., YARAR O.
Kocaeli Üniversitesi Sağlık Bilimleri Dergisi, vol.6, no.1, pp.23-27, 2020 (Other Refereed National Journals)
- III. **White Matter Evaluation in Multiple Sclerosis Through Magnetic Resonance Kurtosis Imaging**
Sahin S., Çam İ., Orturk O., Efendi H., Anik Y., Gündoğdu Ö.
CUREUS, vol.11, 2019 (Journal Indexed in ESCI)
- IV. **Determination of the Radiation Dose Level in Different Slice Computerized Tomography**
GÜNAY O., GÜNDOĞDU Ö., DEMİR M., ABUQBEITAH M., YAŞAR D., AKÖZCAN S., Kapdan E., YARAR O.
International Journal of Computational and Experimental Science and Engineering, vol.5, no.3, pp.119-123, 2019 (Refereed Journals of Other Institutions)
- V. **Manyetik rezonans görüntüleme kalite kontrol**
Şahin S., Çam İ., Anik Y., Gündoğdu Ö.
Türk Radyoloji Dergisi, vol.37, no.2, pp.20-26, 2019 (Other Refereed National Journals)
- VI. **Dijital Mamografi Cihazı Kalite Kontrol Ölçümleri ve Görüntü Kalitesinin Değerlendirilmesi**
Şanlı R., Gündoğdu Ö.
Kocaeli Üniversitesi Sağlık Bilimleri Dergisi, vol.4, pp.88-94, 2018 (Other Refereed National Journals)
- VII. **Use of Processed Mammography Images as a Quality Control Tool**
Bektemür G., Muzoğlu N., Kaya Karaarslan M., Egici M. T. , Gündoğdu Ö.
Haydarpaşa Numune Training and Research Hospital Medical Journal, vol.58, pp.133-136, 2018 (Other Refereed National Journals)
- VIII. **Acceptance Testing and Quality Assurance Procedures for Magnetic Resonance Imaging Facilities**
GÜNDOĞDU Ö., ŞAHİN S.
Medikal Fizik Dergisi, 2017 (Other Refereed National Journals)
- IX. **Structural, Elemental and Molecular Characterization of Normal And Osteoarthritic Human Articular Cartilage**
ÇAYIR T., AKALTUN Y., MEMİŞOĞLU K., GÜNDOĞDU Ö.
JOURNAL OF MATERIALS SCIENCE AND NANOTECHNOLOGY, vol.5, no.1, 2017 (Refereed Journals of Other Institutions)
- X. **316L Yüzeyine SILAR Metoduyla Hidroksiapatit Kaplanması**
ÇAYIR T., AKALTUN Y., GÜNDOĞDU Ö.
Fırat Üniversitesi Mühendislik Bilimleri Dergisi, 2016 (Other Refereed National Journals)
- XI. **Elemental and Structural Studies at the Bone-Cartilage Interface**
Gündoğdu Ö., Bradley D.
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- I. **OPTICAL COHERENCE TOMOGRAPHY IN THE ASSESSMENT OF SKIN FIBROSIS IN SYSTEMIC SCLEROSIS: A CROSS-SECTIONAL STUDY**
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Supported Projects

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- Candan L., Kayahan E., Gündoğdu Ö, TUBITAK Project, FİBER OPTİK LAZERLE KALIP YÜZEYLERİNİN İŞLEME SONRASI YÜZEY PÜRÜZLÜKLERİNİN İYİLEŞTİRİLMESİ, 2019 - 2021
- Gündoğdu Ö, Aras M., Project Supported by Higher Education Institutions, Nanoparticles Doped Medical PVC Production, 2018 - 2020
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- Gündoğdu Ö, Project Supported by Higher Education Institutions, Hareketli Kıkırdağın Yapısal, Elementel ve Mekanik KarakterizasyonununYapılması, 2017 - 2017
- GÜNDOĞDU Ö, Project Supported by Higher Education Institutions, HAREKETLİ EKLEM KIKIRDAĞININ YAPISAL, ELEMENTEL VE MOLEKÜLER AÇIDAN İNCELENMESİ VE TAHRİBATLARIN GİDERİLMESİ, 2016 - 2017

GÜNDOĞDU Ö., Project Supported by Higher Education Institutions, DİJİTAL MAMOGRAFİDE KALİTE KONTROL (QC) VE KALİTE GÜV. (QA) EĞİTİMİ, 2014 - 2015
Gündoğdu Ö., Medişoğlu S., Development Agency, Göğüs Kanserinde Radyasyon Güvenliği Kalite Kontrolü ve Kalite Güvencesi Eğitimi, 2014 - 2014
Gündoğdu Ö., Karaoğlu A. S. , AB IPA Project, University Museums in EU and Turkey, 2011 - 2012
GÜNDOĞDU Ö., Project Supported by Higher Education Institutions, Osteoarthritis ve Göğüs Kanserinin Daha Erken Evrelerde Belirlenmesi İçin Yeni Yöntemlerin Geliştirilmesi, 2010 - 2012
Gündoğdu Ö., Bradley D., EU Supported Other Project, Collagen Orientation of articular cartilage systems using Small Angle X ray Scattering cSAXS, 2008 - 2008
Gündoğdu Ö., Bradley D., EU Supported Other Project, Elemental study of cartilage systems, beam time at HASY Lab, 2007 - 2007
Gündoğdu Ö., Jenneson P. M. , Universities of Other Countries Supported Project, Optical Coherence Tomography of gels for radiation dosimetry, 2007 - 2007
Gündoğdu Ö., Bradley D., EU Supported Other Project, Synchrotron X ray fluorescence analysis, Swiss Light Source (SLS) Paul Scherrer Institute Beam time, 2006 - 2006
Gündoğdu Ö., Jenneson P. M. , Universities of Other Countries Supported Project, Novel Interfacing of Computer Aided Imaging Techniques to Probe Microscopic Evolution of Nano Powder Assemblies, 2003 - 2005
Gündoğdu Ö., Koenders C., Universities of Other Countries Supported Project, Dead End Filtration with a Vibrating Medium, 2001 - 2003

Memberships / Tasks in Scientific Organizations

University Museums and Collections, UMAC, Member, 2012 - Continues
International Council of Museums, ICOM, Member, 2012 - Continues
the European University Heritage Network, UNIVERSEUM, Member, 2012 - Continues

Tasks In Event Organizations

Gündoğdu Ö., Bamyacı M., 1. Gemi ve Filo Yönetimi Çalıştayı, Workshop Organization, Kocaeli, Turkey, Mart 2019
Gündoğdu Ö., 2. Ulusal Barbaros Denizcilik Konferansı, Scientific Congress, Kocaeli, Turkey, Mayıs 2017
Gündoğdu Ö., 1. Ulusal Barbaros Denizcilik Konferansı, Scientific Congress, Kocaeli, Turkey, Mayıs 2015
Gündoğdu Ö., Karaoğlu S., Soubiran S., New perspectives on university museums in EU and Turkey, Scientific Congress, Kocaeli, Turkey, Kasım 2012

Edit Congress and Symposium Activities

International Conference on Emerging Solid/Liquid Separation Technologies, ICEST, Working Group, Paris, France, 2003
European Conference on Filtration and Separation, Working Group, Gothenburg, Sweden, 2002

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Scholarships

Doktora Bursu, University, 1992 - 1995

Yurt Dışı Yüksek Lisans Bursu, Ministry of Education, 1990 - 1992

Awards

GÜNDOĞDU Ö., En İyi Poster Ödülü, Uluslararası Bilim Festivali, Guildford, Surrey, İngiltere, October 2007

GÜNDOĞDU Ö., Her iki yılda bir verilen en önemli ödül: Gold Medal (Altın Madalya), International Filtration Society, September 2003

Non Academic Experience

Hospital, Royal Surrey County Hospital, NCCPM