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International Researcher IDs

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Publons / Web Of Science ResearcherID: F-6064-2018

ScopusID: 55926494500

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Education Information

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

Postgraduate, University of Birmingham, Earth Sciences, United Kingdom 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, 2016 - 2017

BİYOMALZEMELER, Doctorate, 2016 - 2017

TIBBİ GÖRÜNTÜLEME, Doctorate, 2016 - 2017

BİYOMEDİKAL MÜHENDİSLİĞE GİRİŞ, Undergraduate, 2016 - 2017

Biyopolimerler, Doctorate, 2016 - 2017

Mathematics, Undergraduate, 2016 - 2017

Advising Theses

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

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

Gündoğdu Ö., Hareketli eklem kırıkdağının yapısal ve elementel karakterizasyonun 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.Al(Student), 2008

Taught Courses And Trainings

Gündoğdu Ö., Medişoğlu S., Badr I., Tıbbi görüntülemelerde 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. **Effects of Sintering Temperature on Microstructural Properties of Ni_{1-x}Zn_xFe₂O₄ Synthesized by Powder Metallurgy**
Aras M., ŞAHİN M., GÜNDOĞDU Ö.
Medziagotyra, vol.28, no.4, pp.487-495, 2022 (SCI-Expanded)
- II. **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 (SCI-Expanded)
- III. **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 (SCI-Expanded)
- IV. **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 (SCI-Expanded)
- V. **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 (SCI-Expanded)
- VI. **Determination of radiation dose from patients undergoing Tc-99m Sestamibi nuclear cardiac imaging**
Gunay O., Sarihan M., Yazar O., Abuqbeith 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 (SCI-Expanded)
- VII. **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 (SCI-Expanded)
- 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 (SCI-Expanded)
- 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 (SCI-Expanded)
- X. **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 (SCI-Expanded)
- XI. **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 (SCI-Expanded)
- XII. **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 (SCI-Expanded)

- XIII. **Study of the fragmentation phenomena of TiO₂ nanoparticles produced by femtosecond laser ablation in aqueous media**
Alnassar S., Akman E., Öztoprak B., Kaçar E., Gündoğdu Ö., Khaleel A., Demir A.
Optics and Laser Technology, vol.51, pp.17-23, 2013 (SCI-Expanded)
- XIV. **Monte Carlo modelling of single and multiple Compton scattering profiles in a concrete material**
Tarım U. A., Özmutlu E. N., Gurler O., Yalçın S., GÜNDOĞDU Ö., Sharaf J. M., Bradley D. A.
RADIATION PHYSICS AND CHEMISTRY, vol.85, pp.12-17, 2013 (SCI-Expanded)
- XV. **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 (SCI-Expanded)
- XVI. **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 (SCI-Expanded)
- XVII. **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 (SCI-Expanded)
- XVIII. **Analysis and Classification of Heterogeneous Kidney Stones Using Laser-Induced Breakdown Spectroscopy (LIBS)**
Öztoprak 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 (SCI-Expanded)
- XIX. **The energy spectrum of 662 keV photons in a water equivalent phantom**
Tarım U. A., Gurler O., Özmutlu E. N., Yalçın S., GÜNDOĞDU Ö., Sharaf J. M., Bradley D. A.
RADIATION PHYSICS AND CHEMISTRY, vol.81, no.7, pp.745-748, 2012 (SCI-Expanded)
- 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., Hajım K., Kaçar E., Gündoğdu Ö., Demir A.
Optics and Laser Technology, vol.44, pp.913-922, 2012 (SCI-Expanded)
- XXI. **Evaluation of radon concentration in well and tap waters in Bursa, Turkey**
Tarım U. A., Gurler O., Akkaya G., Kilic N., Yalçın S., Kaynak G., GÜNDOĞDU Ö.
RADIATION PROTECTION DOSIMETRY, vol.150, no.2, pp.207-212, 2012 (SCI-Expanded)
- XXII. **MEASUREMENTS OF RADIUM LEVELS IN BOTTLED NATURAL SPRING WATER OF MARMARA REGION TURKEY**
Akar U., Gurler O., Kahraman A., Yalçın S., Kaynak Z. G., Gündoğdu Ö.
Romanian Journal Of Physics, vol.57, pp.1204-1210, 2012 (SCI-Expanded)
- XXIII. **A practical method for in-situ thickness determination using energy distribution of beta particles**
Yalçın S., Gurler O., GÜNDOĞDU Ö., Bradley D. A.
APPLIED RADIATION AND ISOTOPES, vol.70, no.1, pp.128-132, 2012 (SCI-Expanded)
- XXIV. **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 (SCI-Expanded)
- XXV. **Elemental and structural studies at the bone-cartilage interface**
Kaabar W., Daar E., Bunk O., Farquharson M. J., Laklout 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 (SCI-Expanded)
- XXVI. **Analytical investigation of energy spectrums of beta rays emitted from Sr-90 and Tl-204 radioisotopes**
Yalçın S., Gurler O., GÜNDOĞDU Ö., Akar U.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.289, no.3, pp.923-926, 2011 (SCI-Expanded)

- XXVII. **Parental attitudes and varicella vaccine in Kocaeli, Turkey**
Gundogdu Z., Gundogdu Ö.
PREVENTIVE MEDICINE, vol.52, pp.278-280, 2011 (SCI-Expanded)
- XXVIII. **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 (SCI-Expanded)
- XXIX. **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 (SCI-Expanded)
- XXX. **mu-PIXE and SAXS studies at the bone-cartilage interface**
Kaabar W., GÜNDOĞDU Ö., Lakloulou A., Bunk O., Pfeiffer F., Farquharson M. J., Bradley D. A.
APPLIED RADIATION AND ISOTOPES, vol.68, pp.730-734, 2010 (SCI-Expanded)
- XXXI. **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 (SCI-Expanded)
- XXXII. **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 (SCI-Expanded)
- 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 (SCI-Expanded)
- XXXIV. **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 (SCI-Expanded)
- XXXV. **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 (SCI-Expanded)
- XXXVI. **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 (SCI-Expanded)
- 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 (SCI-Expanded)
- XXXVIII. **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 (SCI-Expanded)
- XXXIX. **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 (SCI-Expanded)
- 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 (SCI-Expanded)
- XLI. **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 (SCI-Expanded)

- XLII. Understanding Nanoagglomerates**
Gundogdu Ö., Jenneson P. M.
ADVANCED SCIENCE LETTERS, vol.1, no.2, pp.161-164, 2008 (SCI-Expanded)
- XLIII. 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 (SCI-Expanded)
- XLIV. 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 (SCI-Expanded)
- XLV. Benchtop 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 (SCI-Expanded)
- XLVI. 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 (SCI-Expanded)
- XLVII. 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 (SCI-Expanded)
- XLVIII. 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 (SCI-Expanded)
- XLIX. 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 (SCI-Expanded)
- L. 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 (SCI-Expanded)
- LI. 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 (SCI-Expanded)
- LII. 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 (SCI-Expanded)
- LIII. In situ x-ray imaging of nanoparticle agglomeration in fluidized beds**
Jenneson P., Gundogdu Ö.
APPLIED PHYSICS LETTERS, vol.88, no.3, 2006 (SCI-Expanded)
- LIV. 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 (SCI-Expanded)
- LV. 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 (SCI-Expanded)

LVI. 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 (SCI-Expanded)

LVII. 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 (SCI-Expanded)

LVIII. 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 (SCI-Expanded)

LIX. 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 (SCI-Expanded)

Articles Published in Other Journals

I. Study of the performance change in digital mammography systems depending on the total number of examinations

Karaaslan M. K., Muzoglu N., GÜNDOĞDU Ö.

BIOMEDICAL PHYSICS & ENGINEERING EXPRESS, vol.8, no.6, 2022 (ESCI)

II. Development of Personal Protective Respirator Based on Additive Manufacturing Technologies in Fighting Against Pandemic

AYDIN L., İLKİN S., ARICAN M. O., PEKER A., ŞAHİN S., ÖZKOÇ G., AKSU M. G., KÜÇÜK S., GÜNDOĞDU Ö.

Kocaeli Journal of Science and Engineering, vol.4, no.1, pp.24-38, 2021 (Peer-Reviewed Journal)

III. 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 (Peer-Reviewed Journal)

IV. White Matter Evaluation in Multiple Sclerosis Through Magnetic Resonance Kurtosis Imaging

Sahin S., Çam İ., Orturk O., Efendi H., Anik Y., Gundogdu Ö.

CUREUS, vol.11, 2019 (ESCI)

V. 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 (Peer-Reviewed Journal)

VI. Manyetik rezonans görüntülemeye kalite kontrol

Şahin S., Çam İ., Anik Y., Gundogdu Ö.

Türk Radyoloji Dergisi, vol.37, no.2, pp.20-26, 2019 (Peer-Reviewed Journal)

VII. Use of Processed Mammography Images as a Quality Control Tool

Bektemür G., Muzoglu N., Kaya Karaarslan M., Egici M. T., Gundogdu Ö.

Haydarpasa Numune Training and Research Hospital Medical Journal, vol.58, pp.133-136, 2018 (Peer-Reviewed Journal)

VIII. Dijital Mamografi Cihazı Kalite Kontrol Ölçümleri ve Görüntü Kalitesinin Değerlendirilmesi

Şanlı R., Gundogdu Ö.

Kocaeli Üniversitesi Sağlık Bilimleri Dergisi, vol.4, pp.88-94, 2018 (Peer-Reviewed Journal)

IX. Acceptance Testing and Quality Assurance Procedures for Magnetic Resonance Imaging Facilities

GÜNDOĞDU Ö., ŞAHİN S.

Medikal Fizik Dergisi, 2017 (Peer-Reviewed Journal)

- X. **Structural, Elemental and Molecular Characterization of Normal And Osteoarthritic Human Articular Cartilage**
ÇAYIR T., AKALTUN Y., MEMİŞOĞLU K., GÜNDOĞDU Ö.
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- I. **Effect of X-Ray Tube Voltage and Radiation Dose on Modulation Transfer Function in Digital Mammography**
Karaaslan M. K., Avcı O. M., Muzoğlu N., GÜNDOĞDU Ö.
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- II. **Evaluation Of Patient-Specific VMAT QA Dosimetry Systems for Linac Mechanical Errors and Investigation of Correlations with Dose Volume Histogram in SBRT Treatment**
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The 15th International Symposium on Radiation Physics, 6 - 10 December 2021
- III. **CROSS-VALIDATION AND COMPLEMENTARY VALUE OF OPTICAL COHERENCE TOMOGRAPHY AND HIGH-FREQUENCY ULTRASOUND FOR THE ASSESSMENT OF SKIN DISEASE IN SYSTEMIC SCLEROSIS**

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- IV. **OPTICAL COHERENCE TOMOGRAPHY OF THE SKIN DETECTS SCLERODERMA CHANGES IN CLINICALLY UNAFFECTED SKIN: AN OPPORTUNITY FOR EARLY DETECTION OF SYSTEMIC SCLEROSIS**
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- XI. **Kemik-Kıkırdak Yapının Taramalı Elektron Mikroskobu İle İncelenmesi**
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- XII. **Small-Angle X-Ray Scattering Studies of the Structure Of Human Femoral Head**
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- XIII. **Lazerle Metallerde Farklı Yüzey Uygulamaları**
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- XVII. **The Determination Of The Welding Process Parameters By Laser On Ti6Al4V Alloy**
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- XXVI. **Monte Carlo calculations for photon attenuation studies on different solid phantom materials**
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- XXVII. **laser surface modifikaciotion of Ti6Al4V Alloy**
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- XXX. **Ti6Al4V ALAŞIMINDA LAZER İLE YÜZEY MODİFİKASYONU**
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- XXXIII. **Comparison Of Automatic And Manuel Readings For CDMAM Phantom Images**
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- XXXVI. **316 Paslanmaz Çelik Yüzeylerde Femtosaniye Lazer ile Mikro ve Nanoyapıların Oluşturulması ve Biyolojik Uygulamaları**
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- XXXVII. **Kobalt ve Bakır Alaşımlarının LIBS Tekniği ile İncelenmesi**
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- XL. **Role of New Technologies and Research Institutes in Cultural Heritage**
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13. Ulusal Optik, Elektro-Optik ve Fotonik Toplantısı, Bilkent Üniversitesi, Ankara, Turkey, 23 September 2011
- XLIII. **Autocorrelation analysis of spectral dependency of surface roughness speckle patterns ISOT 2009 IEEE Conference Proceedings**
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Optomechatronic Technologies 2009, 21 - 23 September 2009, pp.235-240
- XLIV. **STABILIZATION OF POROUS SILICON LUMINESCENCE WITH SURFACE MODIFICATIONS**
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- XLIX. **Investigation of essential element distribution in the equine metacarpophalangeal joint using a synchrotron radiation micro x-ray fluorescence technique**
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National Physics Conference 2007 (PERFIK 2007), Kuala-Terengganu, Malaysia, 26 - 28 December 2007, vol.1017, pp.18-19
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- II. **Technical Evaluation of GE DS Full Field Digital Mammography System**
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- III. **Technical Evaluation of Konica Minolta Regius 190 CR Mammography System and Three Types of Image Plate, NHSBSP, NCCPM, Guildford**
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- IV. **Technical Evaluation of Siemens Mammomat Inspiration Full Field Digital Mammography System, NHS BSP, NCCPM, Guildford**
Young K., Oduko J., Gündoğdu Ö., Alsager A.
Technical Report, pp.1-20, 2008
- V. **Technical Evaluation of Fuji Capsula II Computerised Mammography System, , NHSBSP Equipment Report 080X Guildford**
Young K., Oduko J., Gündoğdu Ö., Alsager A.

Technical Report, pp.1-19, 2008

VI. Technical Evaluation of the GE Essential Full Field Digital Mammography System, NHS BSP, NCCPM, Guildford

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II. Technical Evaluation of GE DS Full Field Digital Mammography System

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Supported Projects

KAYAHAN E., GÜNDOĞDU Ö., TUBITAK Project, FİBER OPTİK LAZERLE KALIP YÜZEYLERİNİN İŞLEME SONRASI YÜZEY PÜRÜZLÜKLERİNİN İYİLEŞTİRİLMESİ, 2018 - Continues

Eliçora A., Duruksu G., Gündoğdu Ö., Yıldız U., Sezer H. F., Yazır Y., Gülyüz Ü., Erdem A., TUBITAK Project, Görünür ışıktaki çapraz bağlanabilen kotekol fonksiyonel PEG ve Aljinatın katkılanmasıyla elde edilmiş jelatin bazlı yüksek yapışkan cerrahi sızdırmazlık malzemelerinin geliştirilmesi, 2021 - 2024

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

GÜNDOĞDU Ö., ÇAYIR T., Project Supported by Higher Education Institutions, HAREKETLİ EKLEM KIKIRDAĞININ YAPISAL, ELEMENTEL VE MEKANİK KARAKTERİZASYONUNUN YAPILMASI, 2017 - 2018

Gündoğdu Ö., Project Supported by Higher Education Institutions, Hareketli Kıkırdağın Yapısal, Elementel ve Mekanik Karakterizasyonunun Yapılması, 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 Kanseri 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 Kanseri'nin 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

Metrics

Publication: 139

Citation (WoS): 797

Citation (Scopus): 863

H-Index (WoS): 15

H-Index (Scopus): 15

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

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

ROYAL SURREY COUNTY HOSPİTAL, ST LUKES CANCER CENTRE, GUILDFORD