

Prof. MURAT CANPOLAT

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: C-2840-2016

Yoksis Researcher ID: 127145

Education Information

Post Doctorate, Los Alamos National Laboratory, Bioscience Division, United States Of America 1998 - 2000

Post Doctorate, Boston University, Faculty Of Science, Physics, United States Of America 1996 - 1998

Doctorate, Istanbul Technical University, Fen Fakültesi, Fizik, Turkey 1991 - 1996

Postgraduate, Istanbul Technical University, Fen Fakültesi, Fizik, Turkey 1989 - 1991

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Fizik, Turkey 1982 - 1987

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Latex parçacıklardan film oluşumu sürecinde parçacık ara yüzeylerinde kaynaşma ve polimer zincir difuzyonu, Istanbul Technical University, Fen Fakültesi, Fizik Mühendisliği, 1996

Postgraduate, Affine – Kac Moody Cebirleri, Akdeniz University, Faculty of Science, Fizik Mühendisliği, 1991

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Biophysics, Biomedical Engineering, bioPhotonic, Biomedical Optics, Laser Tissue Interaction, Biomedical Image Processing, Biomedical Image Processing, Engineering and Technology

Academic Titles / Tasks

Professor, Akdeniz University, Faculty of Science, Biyofizik, 2012 - Continues

Associate Professor, Akdeniz University, Faculty of Medicine, Biyofizik, 2006 - 2012

Assistant Professor, Akdeniz University, Faculty of Medicine, Biyofizik, 2005 - 2006

Research Assistant PhD, Boston University, Fizik Bölümü, Fizik Bölümü, 1996 - 1998

Assistant Professor, Istanbul Technical University, Fen Fakültesi, Fizik Mühendisliği, 1997 - 1997

Advising Theses

- CANPOLAT M., Meme Tümörlerini Görüntülemek için Optik Bir Sistemin Geliştirilmesi ve In-vitro Olarak Test Edilmesi, Postgraduate, T.Nüzket(Student), 2019
- CANPOLAT M., Bipolar Depresif Ve Major Depresif Bozukluğu Olan Hastaların Prefrontal Korteksteki Hemodinamik Değişikliklerinin Yakın Kızılötesi Spektroskopi Yöntemiyle İzlenmesi, Postgraduate, S.Uslu(Student), 2019
- CANPOLAT M., Sentinel Lenf Nodu Konumunu Belirlemek İçin Optik Prob Sisteminin Geliştirilmesi Ve Doku Fantomlarında Test Edilmesi, Postgraduate, B.Gümüş(Student), 2018
- CANPOLAT M., In-Vivo Doku Oksijen Saturasyonunun Ölçülmesi İçin Spektroskopik Bir Yöntemin Geliştirilmesi ve Postoperatif Flep Olgularında Doku Canlılığını Belirlemede Kullanılması, Doctorate, A.Sırcan(Student), 2017
- CANPOLAT M., Difüz Optik Tomografide Kullanılan Geri Çatım Tekniğinde Görüntü Kalitesini Arttıracak Düzenlemeler Yaparak Görüntü Oluşturma Ve Elde Edilen Görüntüleri Karşılaştırma, Postgraduate, G.Sevim(Student), 2016
- CANPOLAT M., Difüz Optik Tomografide İki Farklı Geri-Çatım Tekniğiyle Görüntü Oluşturma ve Elde Edilen Görüntüleri Karşılaştırma, Postgraduate, T.Mercan(Student), 2015
- CANPOLAT M., Geri yansıma geometrisinde çalışan lazer diffüz optik tomografi sisteminin geliştirilmesi, Doctorate, H.Özgür(Student), 2014
- CANPOLAT M., Elastik ışık saçılma spektroskopisi sistemini kullanarak prostat tümör dokusu pozitif cerrahi sınırlarının belirlenmesi, Doctorate, T.Denkçeken(Student), 2014
- CANPOLAT M., Elastik ışık saçılma spektroskopisi sistemini (EISSS) kullanarak prostat tümör dokusu pozitif cerrahi sınırların belirlenmesi, Doctorate, T.Denkçeken(Student), 2014
- CANPOLAT M., Eritrosit agregasyon kinetiğine etkili faktörler, Doctorate, M.Üyükü(Student), 2012
- CANPOLAT M., Doku Benzeri Bir Ortamda Kromofor Moleküllerin Konsantrasyonunun Spektroskopik Yöntemle Tayininin Analitik Olarak Modellenmesi, Postgraduate, A.Sırcan(Student), 2011
- CANPOLAT M., Doku benzeri bir ortamda kromofor moleküllerinin konsantrasyonunun spektroskopik yöntemle tayininin analitik olarak modellenmesi, Postgraduate, A.Sırcan(Student), 2011
- CANPOLAT M., Optik Tomografi Sistemini İçin Elektronik Donanım ve Yazılımın Tasarımı ve Yapımı, Postgraduate, H.Özgür(Student), 2009
- CANPOLAT M., Serviks Kanserinin Spektroskopik bir Teknik ile Ex-Vivo Olarak Saptanması, Postgraduate, T.Denkçeken(Student), 2009

Jury Memberships

- Associate Professor Exam, Doçentlik Sınav Jürisi, Ankara Üniversitesi, April, 2015
- Associate Professor Exam, Doçentlik Sınav Jürisi, İstanbul Üniversitesi, March, 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Thermal Inactivation of Airborne SARS-CoV-2 by an Electric Fan Heater in Winter and Defining Conditions to Ensure That All the Air Passes Through the Fan**
CANPOLAT M., Şakalar C., Bozkurt S., ÇOBAN A. Y., Karacayli D., Toker E.
Journal of Thermal Science and Engineering Applications, vol.16, no.2, 2024 (SCI-Expanded)
- II. **Application of diffuse optical back reflection spectroscopy for determining articular cartilage thickness in a clinical setting**
ÜNCÜ Y. A., Unlu Ö., Gumus B., USLU S., Turgut C., Soyuncu Y., BİLGE U., Ustunel I., CANPOLAT M.
INTERNATIONAL ORTHOPAEDICS, vol.47, no.10, pp.2515-2521, 2023 (SCI-Expanded)
- III. **Evaluation of Executive Functions With Functional Near-Infrared Spectroscopy in Euthymic Bipolar and Borderline Personality Disorders**
Zeybek G., USLU S., metin ö., Nüzket T., CİNEMRE B., CANPOLAT M., BAYSAL Ö.
Nöropsikiyatri Arşivi, vol.60, no.2, pp.110-116, 2023 (SCI-Expanded)

- IV. **The detection of cervical neoplasia via optical imaging: a pilot clinical study**
CANPOLAT M., BİRGE Ö., DANIŞMAN T., ÜNCÜ Y. A., Karacayli D., BİLGE U., BAKIR M. S., GÖKSU M., KARADAĞ C., ŞİMŞEK T.
ARCHIVES OF GYNECOLOGY AND OBSTETRICS, vol.306, no.2, pp.433-441, 2022 (SCI-Expanded)
- V. **Rapid thermal inactivation of aerosolized SARS-CoV-2**
CANPOLAT M., Bozkurt S., Sakalar C., ÇOBAN A. Y., Karacayli D., Toker E.
JOURNAL OF VIROLOGICAL METHODS, vol.301, 2022 (SCI-Expanded)
- VI. **Investigating spectroscopic measurement of sublingual veins and tissue to estimate central venous oxygen saturation**
Sircan-Kucuksayan A., Eray O., Buyukaksu M., Gumus B., DURSUN O., CANPOLAT M.
Technology and Health Care, vol.30, no.3, pp.541-549, 2022 (SCI-Expanded)
- VII. **Early detection onset of flap failure using near infrared spectroscopy**
Sircan-Kucuksayan A., ÖZKAN Ö., ÖZKAN Ö., Kucuksayan E., Unal K., CANPOLAT M.
JOURNAL OF PLASTIC SURGERY AND HAND SURGERY, vol.56, no.3, pp.145-150, 2022 (SCI-Expanded)
- VIII. **Approaches to preclinical studies with heterogeneous breast phantom using reconstruction and three-dimensional image processing algorithms for diffuse optical imaging**
ÜNCÜ Y. A., Sevim G., CANPOLAT M.
INTERNATIONAL JOURNAL OF IMAGING SYSTEMS AND TECHNOLOGY, vol.32, no.1, pp.343-353, 2022 (SCI-Expanded)
- IX. **Differentiation of tumoral and non-tumoral breast lesions using back reflection diffuse optical tomography: A pilot clinical study**
ÜNCÜ Y. A., Sevim G., Mercan T., VURAL V., DURMAZ E., CANPOLAT M.
INTERNATIONAL JOURNAL OF IMAGING SYSTEMS AND TECHNOLOGY, vol.31, no.4, pp.2023-2031, 2021 (SCI-Expanded)
- X. **Image reconstruction for diffuse optical tomography using bi-conjugate gradient and transpose-free quasi minimal residual algorithms and comparison of them**
Sevim G., ÜNCÜ Y. A., Mercan T., CANPOLAT M.
INTERNATIONAL JOURNAL OF IMAGING SYSTEMS AND TECHNOLOGY, vol.31, no.4, pp.1894-1905, 2021 (SCI-Expanded)
- XI. **Prediction of the extent of germ cell loss utilising a noninvasive spectroscopy method in rat testicular damage model**
ÇELİK ÖZENCİ Ç., Sircan-Kucuksayan A., Sahin P., Gungor-Ordueri N. E., CANPOLAT M.
ANDROLOGIA, vol.53, no.5, 2021 (SCI-Expanded)
- XII. **Noninvasive assessment of oral lesions using elastic light single-scattering spectroscopy: a pilot study.**
Sircan-Kucuksayan A., Yaprak N., Derin A. T., Ozbudak İ. H., Turhan M., Canpolat M.
European archives of oto-rhino-laryngology : official journal of the European Federation of Oto-Rhino-Laryngological Societies (EUFOS) : affiliated with the German Society for Oto-Rhino-Laryngology - Head and Neck Surgery, vol.277, pp.1467-1472, 2020 (SCI-Expanded)
- XIII. **Histopathological and biochemical assessment of a novel diagnostic method for ovarian torsion**
Ozekinci M., Kucuksayan E., Erdogan G., AYDIN ASLAN M., Pestereli E., CANPOLAT M., Sircan-Kucuksayan A.
BIOTECHNIC & HISTOCHEMISTRY, vol.95, no.3, pp.203-209, 2020 (SCI-Expanded)
- XIV. **Estimating Joint Cartilage Thickness on an Animal Model ex vivo Using Diffuse Reflectance Spectroscopy**
Sircan-Kucuksayan A., CANPOLAT M.
JOURNAL OF APPLIED SPECTROSCOPY, vol.86, no.4, pp.623-628, 2019 (SCI-Expanded)
- XV. **IoT and Edge Computing as a Tool for Bowel Activity Monitoring**
ULUŞAR Ü. D., TÜRK E., ÖZTAŞ A., Savli A. E., ÖĞÜNÇ G., CANPOLAT M.
EDGE COMPUTING: FROM HYPE TO REALITY, pp.133-144, 2019 (SCI-Expanded)
- XVI. **Intraoperative assessment of laryngeal malignancy using elastic light single-scattering spectroscopy: A pilot study.**

- TURHAN M., Yaprak N., SİRCAN-KUCUKSAYAN A., Ozbudak I., BOSTANCI A., Derin A., CANPOLAT M.
The Laryngoscope, vol.127, no.3, pp.611-615, 2017 (SCI-Expanded)
- XVII. Diagnosis of pelvic lymph node metastasis in prostate cancer using single optical fiber probe**
Denkceken T., CANPOLAT M., Baykara M., Bassorgun I., AKTAS-SAMUR A.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.90, pp.63-67, 2016 (SCI-Expanded)
- XVIII. Diffuse reflectance spectroscopy for the measurement of tissue oxygen saturation**
Sircan-Kucuksayan A., UYUKLU M., CANPOLAT M.
PHYSIOLOGICAL MEASUREMENT, vol.36, no.12, pp.2461-2469, 2015 (SCI-Expanded)
- XIX. Differentiating cancerous tissues from noncancerous tissues using single-fiber reflectance spectroscopy with different fiber diameters**
Sircan-Kucuksayan A., Denkceken T., CANPOLAT M.
JOURNAL OF BIOMEDICAL OPTICS, vol.20, no.11, 2015 (SCI-Expanded)
- XX. Low-cost Home-use Light-emitting-diode Phototherapy as an alternative to Conventional Methods**
YILMAZ A., OZKIRAZ S., AKCAN A. B., CANPOLAT M.
JOURNAL OF TROPICAL PEDIATRICS, vol.61, no.2, pp.113-118, 2015 (SCI-Expanded)
- XXI. Design and evaluation of a reflectance diffuse optical tomography system**
Kazanci H. Ö., Mercan T., CANPOLAT M.
OPTICAL AND QUANTUM ELECTRONICS, vol.47, no.2, pp.257-265, 2015 (SCI-Expanded)
- XXII. Retrieval of chromophore concentration in a tissue phantom by diffuse reflectance spectroscopy**
Sircan-Kucuksayan A., CANPOLAT M.
OPTICS AND SPECTROSCOPY, vol.117, no.4, pp.663-669, 2014 (SCI-Expanded)
- XXIII. Investigating viability of intestine using spectroscopy: a pilot study**
Karakas B. R., Sircan-Kucuksayan A., Elpek O. G., CANPOLAT M.
JOURNAL OF SURGICAL RESEARCH, vol.191, no.1, pp.91-98, 2014 (SCI-Expanded)
- XXIV. Detecting Positive Surgical Margins Using Single Optical Fiber Probe During Radical Prostatectomy: A Pilot Study**
Baykara M., Denkceken T., Bassorgun I., Akin Y., Yucel S., Canpolat M.
UROLOGY, vol.83, no.6, pp.1438-1442, 2014 (SCI-Expanded)
- XXV. Diagnosis of Ovarian Ischemia-Reperfusion Injury via Optical Fiber Spectroscopy in a Rat Model**
Sircan-Kucuksayan A., Kucuksayan E., Gemicci B., Ozekinci M., ERDOĞAN G., AYDIN ASLAN M., CANPOLAT M.
FREE RADICAL BIOLOGY AND MEDICINE, vol.65, 2013 (SCI-Expanded)
- XXVI. Elastic Light Single-Scattering Spectroscopy for the Detection of Cervical Precancerous Ex vivo**
Denkceken T., ŞİMŞEK T., ERDOĞAN G., Pestereli E., KARAVELI S., Ozel D., BİLGE U., CANPOLAT M.
IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING, vol.60, no.1, pp.123-127, 2013 (SCI-Expanded)
- XXVII. Diagnosis of Testicular Torsion by Measuring Attenuation of Dual Wavelengths in Transmission Geometry Across the Testis: An Experimental Study in a Rat Model**
CANPOLAT M., Yucel S., Sircan-Kucuksayan A., Kol A., Kazanci H. O., Denkceken T.
UROLOGY, vol.79, no.4, 2012 (SCI-Expanded)
- XXVIII. Diagnosis and Demarcation of Skin Malignancy Using Elastic Light Single-Scattering Spectroscopy: A Pilot Study**
Canpolat M., Akman-Karakas A., Gokhan-Ocak G. A., Bassorgun I. C., Ciftcioglu M. A., ALPSOY E.
DERMATOLOGIC SURGERY, vol.38, no.2, pp.215-223, 2012 (SCI-Expanded)
- XXIX. Wavelength selection in measuring red blood cell aggregation based on light transmittance**
Uyuklu M., CANPOLAT M., Meiselman H. J., Baskurt O. K.
JOURNAL OF BIOMEDICAL OPTICS, vol.16, no.11, 2011 (SCI-Expanded)
- XXX. Variation of photon density distribution with system component within Intralipid emulsion**
Canpolat M.
OPTIK, vol.122, no.10, pp.887-890, 2011 (SCI-Expanded)
- XXXI. An optical method for investigation of thickness of damaged articular cartilage**
Karagol C., Aydin A. T., Gur S., Denkceken T., CANPOLAT M.
EKLEM HASTALIKLARI VE CERRAHISI-JOINT DISEASES AND RELATED SURGERY, vol.21, no.2, pp.104-109, 2010

(SCI-Expanded)

- XXXII. **Intra-operative brain tumor detection using elastic light single-scattering spectroscopy: a feasibility study**
CANPOLAT M., AKYÜZ M., Gokhan G. A., Gurer E. I., Tuncer R.
JOURNAL OF BIOMEDICAL OPTICS, vol.14, no.5, 2009 (SCI-Expanded)
- XXXIII. **Differentiation of melanoma from non-cancerous tissue in an animal model using elastic light single-scattering spectroscopy**
CANPOLAT M., Gokhan A. G., Ciftcioglu M. A., ERİN N.
TECHNOLOGY IN CANCER RESEARCH & TREATMENT, vol.7, no.3, pp.235-240, 2008 (SCI-Expanded)
- XXXIV. **Particle size analysis of turbid media with a single optical fiber in contact with the medium to deliver and detect white light**
Canpolat M., Mourant J.
APPLIED OPTICS, vol.40, no.22, pp.3792-3799, 2001 (SCI-Expanded)
- XXXV. **Monitoring photosensitizer concentration by use of a fiber-optic probe with a small source-detector separation**
Canpolat M., Mourant J.
APPLIED OPTICS, vol.39, no.34, pp.6508-6514, 2000 (SCI-Expanded)
- XXXVI. **High-angle scattering events strongly affect light collection in clinically relevant measurement geometries for light transport through tissue**
Canpolat M., Mourant J.
PHYSICS IN MEDICINE AND BIOLOGY, vol.45, no.5, pp.1127-1140, 2000 (SCI-Expanded)
- XXXVII. **Light scattering from cells: the contribution of the nucleus and the effects of proliferative status**
Mourant J., Canpolat M., Brocker C., Esponda-Ramos O., Johnson T., Matanock A., Stetter K., Freyer J.
JOURNAL OF BIOMEDICAL OPTICS, vol.5, no.2, pp.131-137, 2000 (SCI-Expanded)
- XXXVIII. **The puzzling behavior of water at very low temperature**
Stanley H., Buldyrev S., Canpolat M., Mishima O., Sadr-Lahijany M., Scala A., Starr F.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol.2, no.8, pp.1551-1558, 2000 (SCI-Expanded)
- XXXIX. **The puzzle of liquid water: a very complex fluid**
Stanley H., Buldyrev S., Canpolat M., Havlin S., Mishima O., Sadr-Lahijany M., Scala A., Starr F.
PHYSICA D-NONLINEAR PHENOMENA, vol.133, no.1-4, pp.453-462, 1999 (SCI-Expanded)
- XL. **Fluorescence and UV techniques for studying neck growth and equilibration processes during latex film formation**
Pekcan O., Canpolat M., Arda E.
POLYMER INTERNATIONAL, vol.47, no.4, pp.451-458, 1998 (SCI-Expanded)
- XLI. **Local structural heterogeneities in liquid water under pressure**
Canpolat M., Starr F., Scala A., Sadr-Lahijany M., Mishima O., Havlin S., Stanley H.
CHEMICAL PHYSICS LETTERS, vol.294, no.1-3, pp.9-12, 1998 (SCI-Expanded)
- XLII. **The puzzling statistical physics of liquid water**
Stanley H., Buldyrev S., Canpolat M., Meyer M., Mishima O., Sadr-Lahijany M., Scala A., Starr F.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.257, no.1-4, pp.213-232, 1998 (SCI-Expanded)
- XLIII. **Fluorescence method of studying void closure kinetics during film formation from high-T latex particles**
Pekcan O., Canpolat M.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.66, no.4, pp.655-661, 1997 (SCI-Expanded)
- XLIV. **Measuring chain diffusion coefficients and activation energy during coalescence of fluorescence-labeled hard latex particles**
CANPOLAT M., PEKCAN O.
ACTA POLYMERICA, vol.48, no.8, pp.326-333, 1997 (SCI-Expanded)
- XLV. **Photon diffusion and energy transfer processes during chain interdiffusion in films formed from fluorescence labelled high-T latex particles**
Canpolat M., Pekcan O.

- POLYMER, vol.38, no.11, pp.2595-2602, 1997 (SCI-Expanded)
- XLVI. **Void closure by viscous flow during coalescence of hard latex particles**
PEKCAN O., Canpolat M.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.63, no.5, pp.651-659, 1997 (SCI-Expanded)
- XLVII. **In situ fluorescence experiments for real-time monitoring of annealed high-T latex film dissolution**
PEKCAN O., Canpolat M., Kaya D.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.60, no.12, pp.2105-2112, 1996 (SCI-Expanded)
- XLVIII. **The effect of solid content on latex coalescence and film formation: Steady-state energy transfer study with fluorescence labeled polymers**
Canpolat M., Pekcan O.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.59, no.11, pp.1699-1707, 1996 (SCI-Expanded)
- XLIX. **Healing and photon diffusion during sintering of high-T latex particles**
Canpolat M., Pekcan O.
JOURNAL OF POLYMER SCIENCE PART B-POLYMER PHYSICS, vol.34, no.4, pp.691-698, 1996 (SCI-Expanded)
- L. **Direct fluorescence technique to study evolution in transparency and crossing density at polymer-polymer interface during film formation from high-T latex particles**
PEKCAN O., Canpolat M.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.59, no.2, pp.277-285, 1996 (SCI-Expanded)
- LI. **REPTATION OF A POLYMER-CHAIN BY CONFORMAL TRANSITIONS IN THE ENTANGLED REGIME**
CANPOLAT M., Erzan A., Pekcan Ö.
PHYSICAL REVIEW E, vol.52, no.6, pp.6904-6907, 1995 (SCI-Expanded)
- LII. **PHOTON DIFFUSION STUDY IN FILMS FORMED FROM HIGH-T LATEX-PARTICLES**
CANPOLAT M., PEKCAN O.
POLYMER, vol.36, no.23, pp.4433-4438, 1995 (SCI-Expanded)
- LIII. **HEALING AND INTERDIFFUSION PROCESSES AT PARTICLE-PARTICLE JUNCTION DURING FILM FORMATION FROM HIGH-T LATEX-PARTICLES**
CANPOLAT M., PEKCAN O.
POLYMER, vol.36, no.10, pp.2025-2031, 1995 (SCI-Expanded)
- LIV. **Light Absorption Method to Study Small Molecule Penetration into Non-aqueous Dispersion Particles**
CANPOLAT M.
Macromolecular Reports, vol.A30, 1993 (SCI-Expanded)
- LV. **LIGHT-ABSORPTION METHOD TO STUDY SMALL-MOLECULE PENETRATION INTO NONAQUEOUS DISPERSION PARTICLES**
PEKCAN O., CANPOLAT M.
JOURNAL OF MACROMOLECULAR SCIENCE-PURE AND APPLIED CHEMISTRY, vol.A30, pp.271-279, 1993 (SCI-Expanded)
- LVI. **CHARACTERISTICS OF CHAIN DIFFUSION DURING LATEX FILM FORMATION USING STEADY-STATE FLUORESCENCE TECHNIQUE**
PEKCAN O., CANPOLAT M., GOCMEN A.
EUROPEAN POLYMER JOURNAL, vol.29, no.1, pp.115-120, 1993 (SCI-Expanded)

Articles Published in Other Journals

- I. **Difüz Optik Tomografi Sistemlerinde Kullanılan Geri Çatım Algoritmaları için İterasyon Sayısını Belirmede Alternatif Bir Yöntem**
Sevim G., ÜNCÜ Y. A., Canpolat M.
Süleyman Demirel Üniversitesi Fen Edebiyat Fakültesi Fen Dergisi, vol.16, no.1, pp.246-258, 2021 (Peer-Reviewed Journal)
- II. **Difüz Optik Tomografi Sisteminde Görüntü İşleme Uygulamalarının Test Edilmesi**
ÜNCÜ Y. A., Sevim G., Canpolat M.

Süleyman Demirel Üniversitesi Fen Edebiyat Fakültesi Fen Dergisi, vol.16, no.1, pp.1-16, 2021 (Peer-Reviewed Journal)

- III. **Application of Reconstruction Algorithms by Simulation Experiments for the Diagnosis of Breast Tumor-Like Tissues Modeled in Diffuse Optical Tomography**
SEVİM G., ÜNCÜ Y. A., CANPOLAT M.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.9, no.6, pp.167-176, 2021 (Peer-Reviewed Journal)
- IV. **Predicting the location of the uterine cervical os from 2D images with CNN**
DANIŞMAN T., ÜNCÜ Y. A., Karaçaylı D., BİLGE U., BİRGE Ö., BAKIR M. S., GÖKSU M., ŞİMŞEK T., CANPOLAT M.
Journal of Engineering Sciences and Design, vol.8, no.5, pp.52-57, 2020 (Peer-Reviewed Journal)
- V. **Evaluation of scrotal pigmentation in infants with spectroscopic method and its correlation with 17-hydroxyprogesterone blood levels**
Yenidoğanlarda skrotal pigmentasyonun spektrometre ile değerlendirilmesi ve 17-hidroksiprogesteron kan düzeyi ile korelasyonunun incelenmesi
BAŞARAN A. E., SIRCAN KÜÇÜKSAYAN A., CANPOLAT M., VELİPAŞAOĞLU S.
Acta Medica Alanya, vol.4, no.1, pp.10-15, 2020 (Peer-Reviewed Journal)
- VI. **Evaluation of scrotal pigmentation in infants with spectroscopic method and its correlation with 17-hydroxyprogesterone blood levels**
Başaran A. E., Sırdan Küçüksayan A., CANPOLAT M., VELİPAŞAOĞLU S.
Acta Medica Alanya, vol.4, no.1, pp.10-15, 2020 (Peer-Reviewed Journal)
- VII. **The Comparison of Reconstruction Algorithms for Diffuse Optical Tomography**
MERCAN T., SEVİM G., ÜNCÜ Y. A., USLU S., KAZANCI H. Ö., CANPOLAT M.
Süleyman Demirel Üniversitesi Fen-Edebiyat Fakültesi Sosyal Bilimler Dergisi, vol.14, no.2, pp.285-295, 2019 (Peer-Reviewed Journal)
- VIII. **Design of Breast Laser Tomography System and Pilot Clinical Results**
CANPOLAT M., KAZANCI H. Ö., MERCAN T., ALİMOĞLU E.
AKDENİZ TIP DERGİSİ, vol.1, no.1, pp.58-63, 2015 (Peer-Reviewed Journal)
- IX. **Depth Normalization Algorithm for Continuous Wave Reflectance Diffuse Optical Tomography System**
KAZANCI H. Ö., CANPOLAT M.
El-Cezerî Journal of Science and Engineering, vol.2, no.2, pp.40-46, 2015 (Scopus)
- X. **Continuous Wave Diffuse Optical Tomography System with High Resolution Current to Voltage Analog Digital Converter**
KAZANCI H. Ö., CANPOLAT M.
El-Cezerî Journal of Science and Engineering, vol.2, no.2, pp.68-77, 2015 (Scopus)
- XI. **Mathematical method for diffuse optical tomography imaging: A Research Study**
KAZANCI H. Ö., CANPOLAT M.
El-Cezerî Journal of Science and Engineering, vol.1, no.3, pp.9-16, 2014 (Scopus)

Books & Book Chapters

I. DİFÜZ OPTİK TOMOGRAFİ SİSTEMİ

Canpolat M., Üncü Y. A.

in: BİYOMEDİKAL MÜHENDİSLİĞİ ve UYGULAMALARI, Eroğul O., Koçak O., Editor, TMMOB Elektrik Mühendisler Odak Yayın ve Dağıtım, Ankara, pp.112-132, 2019

II. Steady-state fluorescence method to study film formation from latex particles having a high glass-transition temperature

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