

Prof. Fatma İnci Çilesiz

Personal Information

Office Phone: [+90 212 285 6773](tel:+902122856773)

Fax Phone: [+90 212 285 3679](tel:+902122853679)

Email: cilesiz@itu.edu.tr

Other Email: inci.cilesiz@utexas.edu

Web: <http://www.akademi.itu.edu.tr/cilesiz/>

Address: Elektronik ve Haberleşme Müh Böl İTÜ Ayazağa Yerleşkesi 34469 ISTANBUL



Education Information

Doctorate, The University of Texas at Austin, Graduate School, Biomedical Engineering, United States Of America 1991 - 1994

Postgraduate, University Of Texas At Austin, Graduate School, Biomedical Engineering, United States Of America 1988 - 1991

Undergraduate, Istanbul Technical University, Elektrik-Elektronik, Elektronik Ve Haberleşme Mühendisliği, Turkey 1982 - 1986

Foreign Languages

German, C1 Advanced

Spanish, B1 Intermediate

English, C1 Advanced

Dissertations

Doctorate, Thermal feedback control during laser-assisted tissue welding, The University of Texas at Austin, 1994

Postgraduate, The Effects of Dehydration and Thermal Damage on the Optical Properties of Biological Tissues, The University of Texas at Austin, Graduate School of Engineering, Biomedical Engineering, 1991

Research Areas

Technical Sciences, Biomedical Engineering

Academic Titles / Tasks

Professor, İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 2003 - Continues

Associate Professor, İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 1997 - 2003

Assistant Professor, İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 1995 - 1997

Academic and Administrative Experience

BYM Program Koordinatörü, Istanbul Technical University, Fen Bilimleri Enstitüsü, 2007 - 2014

Konuk Araştırmacı, University of Minnesota-Twin Cities, Biomedical Engineering Program, 2007 - 2007

SUNY Academic Program Coordinator, Istanbul Technical University, 2005 - 2005

BYM Program Koordinatörü, Istanbul Technical University, Fen Bilimleri Enstitüsü, 2003 - 2005

İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 2002 - 2003

invited research scientist, Universiteit van Amsterdam, AZUA, Academic Medical Center, 2000 - 2002

Fakülte Temsilcisi, Istanbul Technical University, 1997 - 2000

İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 1997 - 1998

Research Asisstant to AJ Welch, University of Texas at Austin, Biomedical Engineering Laser Laboratory, 1989 - 1995

Designed Lessons

Çilesiz F. İ. , Scientific and Technical Writing, Undergraduate, 1996 - 1997

Çilesiz F. İ. , Introduction to Biomedical Optics, Postgraduate, 1995 - 1996

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

- I. **Monitoring system for investigating the effect of temperature change on optical properties**
Kara E., Cilesiz I., GÜLSOY M.
LASERS IN MEDICAL SCIENCE, vol.33, no.8, pp.1763-1768, 2018 (Journal Indexed in SCI)
- II. **5 An experimental study on photothermal damage to tissue: the role of irradiance and wavelength**
Yildiz F., Gulsoy M., Cilesiz I.
LASER PHYSICS, vol.26, no.9, 2016 (Journal Indexed in SCI)
- III. **Temperature-dependent optical properties of individual vascular wall components measured by optical coherence tomography**
van der Meer F. J. , Faber D. J. , Cilesiz I., van Gemert M. J. C. , van Leeuwen T. G.
JOURNAL OF BIOMEDICAL OPTICS, vol.11, no.4, 2006 (Journal Indexed in SCI)
- IV. **Comparative optical coherence tomography imaging of human esophagus: How accurate is localization of the muscularis mucosae?**
Cilesiz I., FOCKENS P., KERİNDONGO R., FABER D., TYTGAT G., TEN KATE F., VAN LEEUWEN T.
GASTROINTESTINAL ENDOSCOPY, vol.56, no.6, pp.852-857, 2002 (Journal Indexed in SCI)
- V. **Thermal-feedback-controlled coagulation of egg white by the CO2 laser**
Cilesiz I., KATZIR A.
APPLIED OPTICS, vol.40, no.19, pp.3268-3277, 2001 (Journal Indexed in SCI)
- VI. **Laser soldering of rat skin, using fiberoptic temperature controlled system**
Simhon D., Ravid A., Halpern M., Cilesiz I., Brosh T., Kariv N., Leviav A., Katzir A.
LASERS IN SURGERY AND MEDICINE, vol.29, no.3, pp.265-273, 2001 (Journal Indexed in SCI)
- VII. **The 980-nm diode laser as a new stimulant for laser evoked potentials studies**
GÜLSOY M., DURAK K., KURT A., KARAMÜRSEL S., Cilesiz I.
LASERS IN SURGERY AND MEDICINE, vol.28, no.3, pp.244-247, 2001 (Journal Indexed in SCI)
- VIII. **Er : YAG laser ablation of cerebellar and cerebral tissue**
GÜLSOY M., ÇELİKEL T., KURT A., CANBEYLİ R., Cilesiz I.
LASERS IN MEDICAL SCIENCE, vol.16, no.1, pp.40-43, 2001 (Journal Indexed in SCI)
- IX. **Controlled temperature photothermal issue welding**
Cilesiz I.
JOURNAL OF BIOMEDICAL OPTICS, vol.4, no.3, pp.327-336, 1999 (Journal Indexed in SCI)
- X. **Application of the 980-nm diode laser in stereotaxic surgery**
Gulsoy M., Celikel T., Kurtkaya O., Sav A., Kurt A., Canbeyli R., Cilesiz I.
IEEE JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS, vol.5, no.4, pp.1090-1094, 1999 (Journal Indexed in SCI)

Indexed in SCI)

- XI. **Controlled temperature tissue fusion: Argon laser welding of rat intestine in vivo .1.**
Çilesiz I, Thomsen S., Welch A.
LASERS IN SURGERY AND MEDICINE, vol.21, no.3, pp.269-277, 1997 (Journal Indexed in SCI)
- XII. **Controlled temperature tissue fusion: Ho:YAG laser welding of rat intestine in vivo .2.**
ÇİLESİZ F. İ. , THOMSEN S. L. , WELCH A.
Lasers In Surgery And Medicine, vol.21, pp.278-286, 1997 (Journal Indexed in SCI)
- XIII. **LIGHT DOSIMETRY - EFFECTS OF DEHYDRATION AND THERMAL-DAMAGE ON THE OPTICAL-PROPERTIES OF THE HUMAN AORTA**
CİLESİZ I, WELCH A.
APPLIED OPTICS, vol.32, no.4, pp.477-487, 1993 (Journal Indexed in SCI)

Books & Book Chapters

- I. **Value of Infrared Radiometry to Medical Laser Applications with Reference to Temperature Feedback and Tissue Welding Options**
ÇİLESİZ F. İ.
in: Lasers in the Musculoskeletal System, Gerber, B.E., Knight, M., Siebert W.E., Editor, Springer Verlag, Heidelberg, pp.18-24, 2001
- II. **Dynamics of Optical Properties**
ÇİLESİZ F. İ. , welch a.
in: Biomedical Optical Instrumentation and Laser-Assisted Biotechnology, Scheggi, A. M. V., Martelucci, S., Chester, A. N., and Pratesi, R., Editor, Kluwer Academic Press, Dordrecht, pp.33-41, 1996
- III. **Light Dosimetry: Effects of Dehydration and Thermal Damage on Optical Properties of Human Aorta**
ÇİLESİZ F. İ. , welch a.
in: Selected Papers in Tissue Optics, Tuchin V., Editor, SPIE Optical Engineering Press, Bellingham, WA, pp.368-379, 1994

Episodes in the Encyclopedia

- I. **Encyclopedia of Optical Engineering**
Çilesiz F. İ.
Marcel Dekker, Inc. , pp.online, 2004

Supported Projects

- Çilesiz F. İ. , Project Supported by Higher Education Institutions, Yaşlıların Düşmesini İlgili Kişilere Bildiren IOT cihaz tasarımı, 2016 - 2017
- Çilesiz F. İ. , TUBITAK Project, Hastane enfeksiyonu etkenlerinin hızlı tebiti için otomatize moleküler analiz cihaz ve kitlerinin geliştirilmesi, 2014 - 2016
- Çilesiz F. İ. , Project Supported by Higher Education Institutions, Ortadontik Braketlerin Laserle Sökülmesinin Etkilerinin Araştırılması, 2014 - 2015
- Çilesiz F. İ. , Project Supported by Higher Education Institutions, Meyve Dokularının Spektroskopik Özelliklerin Araştırılması ve Olgunluk (Etenme, Sululuk) Belirlenmesi için Prototip Cihaz Tasarımı ve Geliştirilmesi, 2014 - 2015
- Çilesiz F. İ. , Project Supported by Higher Education Institutions, NIR_IR Laserlerin Karaciğer Dokusu Üzerindeki Etkilerinin İn Vitro Ortamda Araştırılması ve Karşılaştırılması, 2011 - 2012
- Çilesiz F. İ. , Project Supported by Higher Education Institutions, Laser Doku Etkileşiminde Kipleme Etkisinin İncelenmesi, 1998 - 2001

Patent

Çilesiz F. İ. , MEYVE SEBZE OLGUNLUK SEVİYESİNİ ÖLÇME SİSTEMİ VE YÖNTEMİ, Patent, CHAPTER G Physics, Initial Registration, 2015

Citations

Total Citations (WOS):286

h-index (WOS):8

Scholarships

Temperature dependence of tissue physical properties using spectral domain OCT techniques, TUBITAK, 2007 - 2007
Optical Coherence Tomography: Theoretical and Practical Limitations of Minimally-Invasive Imaging of Biological Tissues, Official Institutions of Foreign Countries, 2000 - 2002

Effect of Tissue Coagulation on the Tensile Strength and Healing of Laser Fused/Welded Skin Lesions, Official Institutions of Foreign Countries, 1998 - 1998

Effect of Tissue Coagulation on the Tensile Strength and Healing of Laser Fused/Welded Skin Lesions, University, 1998 - 1998

Effect of Tissue Coagulation on the Tensile Strength and Healing of Laser Fused/Welded Skin Lesions, TUBITAK, 1997 - 1997

Yurtdışı YL Bursu, Fulbright Program, 1987 - 1995

Awards

Çilesiz F. İ. , Konferans için Destek, SPIE, September 1996

Çilesiz F. İ. , Konferans Sunumu için Destek, Gordon Konferansları, June 1994

Çilesiz F. İ. , Konferans Sunumu için Destek, ASLMS, March 1991

Non Academic Experience

Business Establishment Private, Tesodev