

Asst. Prof. Ahmet Can Erten

Personal Information

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International Researcher IDs

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Education Information

Doctorate, University of California, San Diego, Electrical And Computer Engineering, United States Of America 2005 - 2010

Postgraduate, University of California, San Diego, Electrical And Computer Engineering, United States Of America 2003 - 2005

Undergraduate, University of Southern California, Electrical Engineering, United States Of America 1999 - 2003

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Education Management and Planning, Mastering Printed Electronics Principles, Western Michigan University, 2012

Education Management and Planning, Life Science Immersion Program, Biocom Institute, 2011

Dissertations

Doctorate, Development of multifunctional nanoparticles validated by an intravital tumor model, University Of California, San Diego, Electrical And Computer Engineering, Electrical Engineering, 2010

Research Areas

Technical Sciences, Biomedical Engineering, Bioengineering and MEMS, Bioinstrumentation and Microelectromechanical Systems (MEMS), Electrical and Electronics Engineering, Electronic, Nanotechnology, MEMS, Mechanical Engineering, Construction and Manufacturing, Computer Aided Design and Manufacturing

Academic Titles / Tasks

Assistant Professor, Istanbul Technical University, Elektrik-Elektronik, Elektronik Ve Haberleşme Mühendisliği, 2018 - Continues

Courses

Microelectronics Technologies, Undergraduate, 2018 - 2019, 2019 - 2020, 2020 - 2021

Introduction to Logic Design, Undergraduate, 2018 - 2019, 2019 - 2020, 2020 - 2021

Basics of Electrical Circuits, Undergraduate, 2017 - 2018

Jury Memberships

Post Graduate, Tez Savunma Jurisi, Koc Universitesi, August, 2018

Doctorate, Tez Savunma Jurisi, Koc Universitesi, August, 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **An Easy-to-Fabricate Microfluidic Shallow Trench Induced Three-Dimensional Cell Culturing and Imaging (STICI3D) Platform**
Coşkun U. C. , Kus F., Rehman A. U. , Morova B., Gülle M., Baser H., Kul D., Kiraz A., Baysal K., Erten A. C.
ACS Omega, vol.7, no.10, pp.8281-8293, 2022 (Peer-Reviewed Journal)
- II. **A 3D-printed 3D actuator for miniaturized laser scanning probes**
Gurcuoglu O., Derman I. D. , Altinsoy M., Khayatzaheh R., Civitci F., Erten A. C. , Ferhanoğlu O.
SENSORS AND ACTUATORS A-PHYSICAL, vol.317, 2021 (Peer-Reviewed Journal)
- III. **A micropillar-based microfluidic viscometer for Newtonian and non-Newtonian fluids**
Mustafa A., Eser A., Aksu A. C. , Kiraz A., Tanyeri M., Erten A. C. , Yalcin O.
ANALYTICA CHIMICA ACTA, vol.1135, pp.107-115, 2020 (Peer-Reviewed Journal)
- IV. **A 3D-printed tunable fluidic lens with collagen-enriched membrane**
Senel E. C. , Derman I. D. , Satak S., Erten A. C. , Ferhanoğlu O.
MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS, 2020 (Peer-Reviewed Journal)
- V. **Size-Based Sorting of Emulsion Droplets in Microfluidic Channels Patterned with Laser-Ablated Guiding Tracks**
Rehman A. U. , Coşkun U. C. , Rashid Z., Morova B., Jonas A., Erten A. C. , Kiraz A.
ANALYTICAL CHEMISTRY, vol.92, no.3, pp.2597-2604, 2020 (Peer-Reviewed Journal)
- VI. **Technology Advancements in Blood Coagulation Measurements for Point-of-Care Diagnostic Testing**
Aria M. M. , Erten A. C. , Yalcin O.
FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY, vol.7, 2019 (Peer-Reviewed Journal)
- VII. **Passive sorting of emulsion droplets with different interfacial properties using laser-patterned surfaces**
Rashid Z., Erten A. C. , Morova B., Muradoglu M., Jonas A., Kiraz A.
MICROFLUIDICS AND NANOFUIDICS, vol.23, no.5, 2019 (Peer-Reviewed Journal)
- VIII. **Guiding of emulsion droplets in microfluidic chips along shallow tracks defined by laser ablation**
Rashid Z., Coşkun U. C. , Morova Y., Morova B., Bozkurt A. A. , Erten A. C. , Jonas A., AKTÜRK S., Kiraz A.
MICROFLUIDICS AND NANOFUIDICS, vol.21, no.10, 2017 (Peer-Reviewed Journal)
- IX. **Solid State Sensor for Simultaneous Measurement of Total Alkalinity and pH of Seawater**
BRIGGS E. M. , SANDOVAL S., Erten A. C. , TAKESHITA Y., KUMMEL A. C. , MARTZ T. R.
ACS SENSORS, vol.2, no.9, pp.1302-1309, 2017 (Peer-Reviewed Journal)
- X. **Enhanced Dissolution of Liquid Microdroplets in the Extensional Creeping Flow of a Hydrodynamic Trap**
Mustafa A., Erten A. C. , Ayaz R. M. A. , Kayillioglu O., Eser A., Eryurek M., Irfan M., Muradoglu M., Tanyeri M., Kiraz A.
LANGMUIR, vol.32, no.37, pp.9460-9467, 2016 (Peer-Reviewed Journal)
- XI. **Streamlined cryogenic deep reactive ion etching protocol for hybrid micronozzle arrays**
Erten A. C. , MAKALE M., LU X., FRUHBERGER B., KESARİ S., ESENER S.
JOURNAL OF MICROMECHANICS AND MICROENGINEERING, vol.21, no.10, 2011 (Peer-Reviewed Journal)

- XII. **Magnetic resonance and fluorescence imaging of doxorubicin-loaded nanoparticles using a novel in vivo model**
Erten A. C. , WRASÍDLO W., SCADENG M., ESENER S., Hoffman R. M. , BOUVET M., MAKALE M.
NANOMEDICINE-NANOTECHNOLOGY BIOLOGY AND MEDICINE, vol.6, no.6, pp.797-807, 2010 (Peer-Reviewed Journal)
- XIII. **Enhancing magnetic resonance imaging tumor detection with fluorescence intensity and lifetime imaging**
Erten A. C. , HALL D., HOH C., Cao H. S. I. , KAUSHAL S., ESENER S., Hoffman R. M. , BOUVET M., CHEN J., KESARÍ S., et al.
JOURNAL OF BIOMEDICAL OPTICS, vol.15, no.6, 2010 (Peer-Reviewed Journal)
- XIV. **Microfluidic cell sorter with integrated piezoelectric actuator**
Chen C. H. , CHO S. H. , TSAÍ F., Erten A. C. , LO Y.
BIOMEDICAL MICRODEVICES, vol.11, no.6, pp.1223-1231, 2009 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **A 3D actuator for laser scanning endoscopy**
Gurcuoglu O., Derman I. D. , Altinsoy M., Khayatzaheh R., Erten A. C. , Civitci F., Ferhanoğlu O.
Conference on MOEMS and Miniaturized Systems XIX, San-Francisco, Costa Rica, 1 - 03 February 2020, vol.11293
- II. **Nano-Crossbar based Computing: Lessons Learned and Future Directions**
Altun M., Çevik İ., Erten A. C. , Eksik O., Stan M., Moritz C. A.
Design, Automation and Test in Europe Conference and Exhibition (DATE), Grenoble, France, 9 - 13 March 2020, pp.382-387

Supported Projects

Erten A. C. , BAYSAL K., KÍRAZ A., MURADOĞLU M., TUBITAK Project, Tümör Sferoidlerin Anjiyogenezinin ve İlaça Yanıtının İncelenmesi için 3 Boyutlu Hücre Kültürüne İzin Veren Mikroakışkan Kartuş Geliştirilmesi, 2020 - 2023

Erten A. C. , TUBITAK Project, Microtem Global Coagulation Analysis System, 2019 - 2021

Erten A. C. , TUBITAK Project, Koagülasyon Yolaklarının Değerlendirilmesi için Taşınabilir Tromboelastometri Cihazının Geliştirilmesi, 2015 - 2018

Scientific Refereeing

Journal of Micromechanics and Microengineering, SCI Journal, October 2018

Journal of Micromechanics and Microengineering, SCI Journal, April 2018

Journal of Micromechanics and Microengineering, SCI Journal, March 2018

Journal of Micromechanics and Microengineering, SCI Journal, January 2018

Journal of Micromechanics and Microengineering, SCI Journal, December 2017

Journal of Micromechanics and Microengineering, SCI Journal, October 2017

Journal of Micromechanics and Microengineering, SCI Journal, July 2017

Journal of Micromechanics and Microengineering, SCI Journal, April 2017

Journal of Micromechanics and Microengineering, SCI Journal, March 2017

Journal of Micromechanics and Microengineering, SCI Journal, November 2016

Journal of Micromechanics and Microengineering, SCI Journal, July 2016

Metrics

Publication: 34

Citation (WoS): 174

Citation (Scopus): 198

H-Index (WoS): 5

H-Index (Scopus): 6

Congress and Symposium Activities

NanoTR, Attendee, İzmir, Turkey, 2018

3. Biyomalzeme Gunu, Invited Speaker, Ordu, Turkey, 2016