

Assoc. Prof. ENDER YILDIRIM

Personal Information

Email: yender@metu.edu.tr

Web: <https://avesis.metu.edu.tr/yender>

Address: ODTÜ Makina Mühendisliği Bölümü, Üniversiteler Mahallesi, Dumlupınar Bulvarı No:1, 06800 Çankaya/Ankara

International Researcher IDs

ScholarID: Wwu05yMAAAAJ

ORCID: 0000-0002-7969-2243

Publons / Web Of Science ResearcherID: K-3962-2019

ScopusID: 36165070100

Yoksis Researcher ID: 31835

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **ICU patient-on-a-chip emulating orchestration of mast cells and cerebral organoids in neuroinflammation**
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- II. **A microfluidic platform for real-time enumeration and high accuracy retrieval of a very low number of cells**
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- III. **Utilization of cross-correlation function for assessment of replication quality in ultrasonic embossing of microchannels on polymethyl methacrylate**
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- IV. **Humanized brain organoids-on-chip integrated with sensors for screening neuronal activity and neurotoxicity**
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- V. **Analytical Validation of a Spiral Microfluidic Chip with Hydrofoil-Shaped Pillars for the Enrichment of Circulating Tumor Cells**
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- VII. **Microfluidic-based blood immunoassays**
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- VIII. **Assessment of silicon, glass, FR4, PDMS and PMMA as a chip material for acoustic particle/cell manipulation in microfluidics**
Açıkgöz H. N., KARAMAN A., Şahin M. A., Çaylan Ö. R., Büke G. C., YILDIRIM E., Eroğlu İ. C., ERSON BENSAN A. E., Çetin B., ÖZER M. B.
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- IX. **Escherichia coli Enumeration in a Capillary-Driven Microfluidic Chip with SERS**
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- X. **Development of a microfluidic platform to maintain viability of micro-dissected tumor slices in culture**
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- XI. **A capillary driven microfluidic chip for SERS based hCG detection**
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- XII. **A microfluidic device enabling drug resistance analysis of leukemia cells via coupled dielectrophoretic detection and impedimetric counting**
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- XIII. **Flow rate-controlled pipetting for microfluidics: second-generation flexible hydraulic reservoir (FHRv2)**
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- XIV. **A Novel Microfluidic Method Utilizing a Hydrofoil Structure to Improve Circulating Tumor Cell Enrichment: Design and Analytical Validation**
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- XV. **Modeling and fabrication of electrostatically actuated diaphragms for on-chip valving of MEMS-compatible microfluidic systems**
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- XVI. **Multiplex enumeration of Escherichia coli and Salmonella enteritidis in a passive capillary microfluidic chip**
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- XVII. **Investigation of process-affected zone in ultrasonic embossing of microchannels on thermoplastic substrates**
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- XVIII. **Low-Cost Microfabrication Tool Box**
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- XIX. **Fast fluorometric enumeration of E. coli using passive chip**
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- XX. **Numerical study on effects of computational domain length on flow field in standing wave thermoacoustic couple**
MERGEN S., YILDIRIM E., TÜRKOĞLU H.
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- XXI. **SERS-based ultrafast and sensitive detection of luteinizing hormone in human serum using a passive microchip**
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- XXII. **A novel zero-dead-volume sample loading interface for microfluidic devices: flexible hydraulic reservoir (FHR)**
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- XXIII. **Analysis and testing of a contraction-and-expansion micromixer for micromilled microfluidics**

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- XXIV. **Implementation and characterization of an absorption filter for on-chip fluorescent imaging**
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- XXV. **Investigation on replication of microfluidic channels by hot embossing**
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- XXVI. **Phaseguide assisted liquid lamination for magnetic particle-based assays**
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- XXVII. **Phaseguides as tunable passive microvalves for liquid routing in complex microfluidic networks**
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- XXVIII. **A normally closed electrostatic parylene microvalve for micro total analysis systems**
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- XXIX. **Electrostatic energy harvesting by droplet-based multi-phase microfluidics**
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- XXX. **Analysis and characterization of an electrostatically actuated in-plane parylene microvalve**
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- II. **Modeling and Analysis of a Microfluidic Capillary Valve**
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- III. **MEMS Malzeme Karakterizasyonu için Bütünlesik bir Elektrostatik Mikro Bükülme Test Yapısı Tasarımı ve Gerçeklestirilmesi**
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Books & Book Chapters

- I. **Litografi**
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- II. **Lab on a chip: A versatile integration with spectroscopic techniques**
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in: Handbook on Miniaturization in Analytical Chemistry, Chaudhery Mustansar Hussain, Editor, Elsevier Science, Oxford/Amsterdam , Amsterdam, pp.139-152, 2020
- III. **Otomatik Montaj Sistemleri**

Yıldırım E.

in: Otomasyon, Üretim Sistemleri ve Bilgisayarla Tümüleşik İmalat, Mustafa Yurdakul, Yusuf Tansel İç, Editor, Nobel Yayın Dağıtım, Ankara, pp.472-496, 2016

IV. Grup Teknoloji ve Hücresel İmalat

Yıldırım E.

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V. Otomatik Üretim Hatları

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VI. İmalat Sistemlerine Genel Bakış

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in: Otomasyon, Üretim Sistemleri ve Bilgisayarla Tümüleşik İmalat, Mustafa Yurdakul, Yusuf Tansel İç, Editor, Nobel Yayın Dağıtım, Ankara, pp.353-365, 2016

VII. Tek İstasyonlu İmalat Hücreleri

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VIII. Elle İşletilen Montaj Hatları

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IX. Mikroakışkan Sistemlere Yönelik Gelecek Tahminleri

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Refereed Congress / Symposium Publications in Proceedings

I. Analysis of Acoustically Actuated Sedimentation Prevention System for Syringe Pumps

KAYA A., ÖNER G., ERGÜVEN Ö. F., YILDIRIM E., ALMUS F. G.

19th INTERNATIONAL CONFERENCE ON MACHINE DESIGN AND PRODUCTION, Aksaray, Turkey, 31 August 2022

II. Design of An Anti-Sedimentation Syringe Pump for Microfluidics Applications

KOYUNCU E., KOÇUM A. T., KOÇ E., KÜÇÜKGENÇ C., KURTOĞLU B., KARAKAŞ O., KURUKAHVECİ E., YILDIRIM E., ALMUS F. G.

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III. A microfluidic platform for real-time enumeration and retrieval of low number of cells

Şahin B., Karayalçın G., Toral T., Şen Doğan B., Özgür E., Zorlu Ö., Yıldırım E., Külah H.

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IV. An ultrasonic assisted method for fabricating metal layers on thermoplastic substrates for lab-on-a-chip

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- VI. **2D PHASE-FIELD SIMULATION AND EXPERIMENTAL VALIDATION OF DROPLET FORMATION IN A FLOW-FOCUSING JUNCTION**
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- VII. **NUMERICAL SIMULATION AND EXPERIMENTAL ANALYSIS OF INERTIAL CELL FOCUSING IN A CONTRACTION-EXPANSION ARRAY (CEA) MICROCHANNEL**
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- VIII. **Mikroakışkan sistemlerde immunolipozom destekli patojen bakteri tayini**
Eryılmaz M., İlbasmış Tamer S., Tayyarcan E. K., Ekşi Koçak H., Yıldırım E., Boyacı İ. H., Çetin D., Suludere Z., Tamer U.
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- IX. **Dielectrophoretic Detection Of Imatinib Resistance In K562 Cells Using A Lab-On-A-Chip System**
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MicroTAS 2019, Basel, Switzerland, 27 - 31 October 2019
- X. **FABRICATION OF ORGAN-ON-A-CHIP SYSTEMS AND BIOPRINTING**
YILDIRIM E.
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- XI. **CHARACTERIZATION OF EMBEDDED MICROCHANNELS FABRICATED BY SLA**
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- XII. **GENERATION AND CHARACTERIZATION OF HYDROGEL MICRODROPLETS AS BIOINK FOR BIOPRINTING APPLICATIONS**
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- XIII. **A combinational approach for determining the channel dimensions and separation wall location in a spiral microchannel**
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- XV. **Determination of Electrical Heterogeneities in Cell Lines by Dielectrophoresis Utilizing High Conductivity Buffers**
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- XVI. **Fluorescent on-chip imager by using a tunable absorption filter**
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- XVIII. **Chip-Based Immunomagnetic Separation of Human Chorionic Gonadotropin**
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- XX. **On-Chip Insulated Micro Well Array for Cell Viability Assays**
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- XXI. **A Novel Cell Sorting Structure to Improve Droplet Based Single Cell Encapsulation**
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- XXII. **Effect of Preheating on Channel Geometry and Surface Texture in Fabrication of Plastic Microfluidic Chips by Ultrasonic Hot Embossing**
ÇOĞUN F., YILDIRIM E.
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- XXIII. **Rep-Rap 3 Boyutlu Yazıcı Kullanılarak Biyo Yazıcı Uygulaması**
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- XXIV. **MaSter: UV-C Sterilizer for Magistral Medication Preparation in Pharmacies**
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8. Mühendislik ve Teknoloji Sempozyumu, Turkey, 14 - 15 May 2015
- XXV. **Optimization of Hot Embossing Process for Fabrication of Microfluidic Devices**
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8. Mühendislik ve Teknoloji Sempozyumu, Turkey, 14 - 15 May 2015
- XXVI. **Phaseguides: A Toolbox for Passive Microfluidics**
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- XXVII. **PHASEGUIDE ASSISTED LIQUID LAMINATION FOR MAGNETIC BEAD BASED ASSAYS**
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17th International Conference on Miniaturized Systems for Chemistry and Life Sciences, 27 - 31 October 2013
- XXVIII. **Reconfigurable Microfluidic Transmitarray Unit Cells**
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MEMSWAVE 2013, 14th International Symposium on RF-MEMS and RF-Microsystems, Potsdam, Germany, 1 - 03 July 2013
- XXIX. **Reconfigurable Microfluidic Transmitarray Unit Cell**
Erdil E., Topallı K., Zorlu Ö., Toral T., Yıldırım E., KÜLAH H., Özlem C. A.
European Conference on Antennas and Propagation (EUCAP) 2013), GÖTEBORG, Sweden, 8 - 12 April 2013
- XXX. **A Reconfigurable Microfluidic Transmitarray Unit Cell**
Erdil E., Topallı K., Zorlu Ö., Toral T., YILDIRIM E., KÜLAH H., AYDIN ÇİVİ H. Ö.
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- XXXI. **A Droplet based Multi-Drug Screening System Controlled with Electrostatic Microvalves**
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16th International Conference on Miniaturized Systems for Chemistry and Life Sciences, 28 October - 01 November 2012
- XXXII. **Analysis and Testing of a Micromixer for Precision Milled Microchannel Networks**
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EMBL Conference: Microfluidics 2012, 25 - 27 July 2012
- XXXIII. **An electrostatically actuated parylene microvalve for lab on a chip applications**
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16. International Conference on Solid State Sensors, Actuators and Micro Systems, 5 - 09 July 2011
- XXXIV. **Design and Leakage Characterization of a Microvalve for Parylene Based Lab-on-a-Chip Systems**
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4. Mühendislik ve Teknoloji Sempozyumu, Ankara, Turkey, 28 - 29 April 2011
- XXXV. **An Electrostatic Parylene Microvalve for Lab-on-a-Chip Applications**

Yıldırım E., Koyuncuođlu A., Klah H.

15. Biyomedikal Mhendisliđi Ulusal Toplantısı, Antalya, Turkey, 21 - 24 April 2010

XXXVI. **An electrostatic parylene microvalve for controlling in plane flow**

YILDIRIM E., Koyuncuođlu A., KLAH H.

13. International Conference on Miniaturized Systems for Chemistry and Life Sciences, 1 - 05 November 2009

Metrics

Publication: 80

Citation (WoS): 328

Citation (Scopus): 395

H-Index (WoS): 12

H-Index (Scopus): 13

Non Academic Experience

2012 - 2013

Leiden University Academic Center for Drug Research