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

ScopusID: 36165070100

Yoksis Researcher ID: 31835

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Rapid bacterial detection through microfluidic integration with a glucometer**
Eryilmaz M., İLBASMIŞ TAMER S., Panhwar S., Tayyarcan E. K., BOYACI İ. H., Suludere Z., ÇETİN D., Zengin A., YILDIRIM E., TAMER U.
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- II. **ICU patient-on-a-chip emulating orchestration of mast cells and cerebral organoids in neuroinflammation**
Saglam-Metiner P., Yanasik S., Odabasi Y. C., Modamio J., Negwer M., Biray-Avci C., GÜLER A., Erturk A., YILDIRIM E., Yesil-Celiktas O.
Communications Biology, vol.7, no.1, 2024 (SCI-Expanded)
- III. **A microfluidic platform for real-time enumeration and high accuracy retrieval of a very low number of cells**
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- IV. **Utilization of cross-correlation function for assessment of replication quality in ultrasonic embossing of microchannels on polymethyl methacrylate**
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- V. **Humanized brain organoids-on-chip integrated with sensors for screening neuronal activity and neurotoxicity**
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- VI. **Analytical Validation of a Spiral Microfluidic Chip with Hydrofoil-Shaped Pillars for the Enrichment of Circulating Tumor Cells**
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- VII. **Platform-agnostic electrochemical sensing app and companion potentiostat**
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- VIII. **Microfluidic-based blood immunoassays**
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- IX. **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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- X. **Escherichia coli Enumeration in a Capillary-Driven Microfluidic Chip with SERS**
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- XI. **Development of a microfluidic platform to maintain viability of micro-dissected tumor slices in culture**
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- XII. **A capillary driven microfluidic chip for SERS based hCG detection**
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- XIII. **A microfluidic device enabling drug resistance analysis of leukemia cells via coupled dielectrophoretic detection and impedimetric counting**
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- XIV. **Flow rate-controlled pipetting for microfluidics: second-generation flexible hydraulic reservoir (FHRv2)**
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- XV. **A Novel Microfluidic Method Utilizing a Hydrofoil Structure to Improve Circulating Tumor Cell Enrichment: Design and Analytical Validation**
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- XVI. **Modeling and fabrication of electrostatically actuated diaphragms for on-chip valving of MEMS-compatible microfluidic systems**
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- XVII. **Multiplex enumeration of Escherichia coli and Salmonella enteritidis in a passive capillary microfluidic chip**
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- XVIII. **Low-Cost Microfabrication Tool Box**
Charmet J., Rodrigues R., YILDIRIM E., Challa P. K., Roberts B., Dallmann R., Whulanza Y.
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- XIX. **Investigation of process-affected zone in ultrasonic embossing of microchannels on thermoplastic substrates**
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- XX. **Fast fluorometric enumeration of E. coli using passive chip**
KASAP E. N., DOĞAN Ü., ÇOĞUN F., YILDIRIM E., BOYACI İ. H., ÇETİN D., SULUDERE Z., TAMER U., ERTAŞ N.
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- XXI. **Numerical study on effects of computational domain length on flow field in standing wave thermoacoustic couple**
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- XXII. **SERS-based ultrafast and sensitive detection of luteinizing hormone in human serum using a passive microchip**
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- XXIII. **A novel zero-dead-volume sample loading interface for microfluidic devices: flexible hydraulic**

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- XXIV. **Analysis and testing of a contraction-and-expansion micromixer for micromilled microfluidics**
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- XXV. **Implementation and characterization of an absorption filter for on-chip fluorescent imaging**
YILDIRIM E., ARPALI Ç., Arpali S. A.
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- XXVI. **Investigation on replication of microfluidic channels by hot embossing**
Cogun F., Yıldırım E., Arıkan M. A. S.
MATERIALS AND MANUFACTURING PROCESSES, vol.32, pp.1838-1844, 2017 (SCI-Expanded)
- XXVII. **Phaseguide assisted liquid lamination for magnetic particle-based assays**
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- XXVIII. **Phaseguides as tunable passive microvalves for liquid routing in complex microfluidic networks**
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- XXIX. **A normally closed electrostatic parylene microvalve for micro total analysis systems**
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- XXX. **Electrostatic energy harvesting by droplet-based multi-phase microfluidics**
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- XXXI. **Analysis and characterization of an electrostatically actuated in-plane parylene microvalve**
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- I. **Design of a microfluidic device for immunoaffinity-based isolation of circulating tumor cells with minimal clogging**
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- II. **Modeling and Analysis of a Microfluidic Capillary Valve**
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- III. **MEMS Malzeme Karakterizasyonu için Bütünleşik bir Elektrostatik Mikro Bükülme Test Yapısı Tasarımı ve Gerçekleştirilmesi**
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Cankaya University Journal of Science and Engineering, vol.9, pp.9-23, 2012 (Peer-Reviewed Journal)

Books

- I. **Litografi**
Yıldırım E.
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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

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

IV. Grup Teknoloji ve Hücreyel İmalat

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V. Otomatik Üretim Hatları

Yıldırım E.

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VI. İmalat Sistemlerine Genel Bakış

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VIII. Elle İşletilen Montaj Hatları

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X. Mikroakışkan Sistemlerin Üretimi

ÇETİN B., YILDIRIM E., AKAY Ş.

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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

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- V. **DEVELOPMENT OF A MICROFLUIDIC PLATFORM TO MAINTAIN VIABILITY OF MICRO-DISSECTED TUMOR SLICES IN CULTURE**
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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**
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XVI. Ulusal Spektroskopi Kongresi, Turkey, 7 - 08 November 2019
- IX. **Dielectrophoretic Detection Of Imatinib Resistance In K562 Cells Using A Lab-On-A-Chip System**
Demircan Yalçın Y., TORAL T. B., Sukaş S., Yıldırım E., Zorlu Ö., GÜNDÜZ U., KÜLAH H.
MicroTAS 2019, Basel, Switzerland, 27 - 31 October 2019
- X. **FABRICATION OF ORGAN-ON-A-CHIP SYSTEMS AND BIOPRINTING**
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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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- XVII. **Simultaneous Detection of Two Different Bacteria Using QDs and MNPs**
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- XVIII. **Chip-Based Immunomagnetic Separation of Human Chorionic Gonadotropin**
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- XIX. **Microchip Based Determination of Bacteria by in-Chip Sandwich Immunoassay**
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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**
Ziyara A., ÇOĞUN F., Varol C., Totuk O. H., YILDIRIM E.
8. Mühendislik ve Teknoloji Sempozyumu, Turkey, 14 - 15 May 2015
- XXVI. **Phaseguides: A Toolbox for Passive Microfluidics**
YILDIRIM E., Trietsch S. J., Joore J., Hankemeier T., Vulto P.
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- XXVII. **PHASEGUIDE ASSISTED LIQUID LAMINATION FOR MAGNETIC BEAD BASED ASSAYS**
Phurimsak C., YILDIRIM E., Trietsch S. J., Hankemeier T., Tarn M. D., Pamme N., Vulto P.
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- XXVIII. **Reconfigurable Microfluidic Transmitarray Unit Cells**
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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.
7th European Conference on Antennas and Propagation, 8 - 12 April 2013
- XXXI. **A Droplet based Multi-Drug Screening System Controlled with Electrostatic Microvalves**
YILDIRIM E., Özgür E., KÜLAH H.
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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- 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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- XXXV. **An Electrostatic Parylene Microvalve for Lab-on-a-Chip Applications**
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15. Biyomedikal M hendisliđi Ulusal Toplantısı, Antalya, Turkey, 21 - 24 April 2010
- XXXVI. **An electrostatic parylene microvalve for controlling in plane flow**
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13. International Conference on Miniaturized Systems for Chemistry and Life Sciences, 1 - 05 November 2009

Metrics

Publication: 85
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, Doktora sonrası arařtırmacı