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

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Published journal articles indexed by SCI, SSCI, and AHCI

- I. Humanized brain organoids-on-chip integrated with sensors for screening neuronal activity and neurotoxicity
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- II. Analytical Validation of a Spiral Microfluidic Chip with Hydrofoil-Shaped Pillars for the Enrichment of Circulating Tumor Cells
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- III. Platform-agnostic electrochemical sensing app and companion potentiostat
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- IV. Microfluidic-based blood immunoassays
TORUL H., Arslan Z. Ç., Tezcan T., Kayış E. Ç., Çalımcı M., Gumustas A., YILDIRIM E., KÜLAH H., TAMER U.
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- V. Assessment of silicon, glass, FR4, PDMS and PMMA as a chip material for acoustic particle/cell manipulation in microfluidics
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- VI. Escherichia coli Enumeration in a Capillary-Driven Microfluidic Chip with SERS
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- VII. Development of a microfluidic platform to maintain viability of micro-dissected tumor slices in culture
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- VIII. A capillary driven microfluidic chip for SERS based hCG detection
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- IX. A microfluidic device enabling drug resistance analysis of leukemia cells via coupled dielectrophoretic detection and impedimetric counting
Demircan Yalçın Y., Töral T. B., Sukas S., YILDIRIM E., Zorlu Ö., Gündüz U., KÜLAH H.
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- X. Flow rate-controlled pipetting for microfluidics: second-generation flexible hydraulic reservoir

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Atay A., Topuz A., Sariarslan B., YILDIRIM E., Charmet J., Couling K., ÇETİN B.

MICROFLUIDICS AND NANOFUIDICS, vol.25, no.1, 2021 (SCI-Expanded)

- XI. **A Novel Microfluidic Method Utilizing a Hydrofoil Structure to Improve Circulating Tumor Cell Enrichment: Design and Analytical Validation**

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- XII. **Modeling and fabrication of electrostatically actuated diaphragms for on-chip valving of MEMS-compatible microfluidic systems**

Atik A. C., Ozkan M. D., Ozgur E., Külah H., Yıldırım E.

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- XIII. **Multiplex enumeration of Escherichia coli and Salmonella enteritidis in a passive capillary microfluidic chip**

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- XIV. **Low-Cost Microfabrication Tool Box**

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- XV. **Investigation of process-affected zone in ultrasonic embossing of microchannels on thermoplastic substrates**

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- XVI. **Fast fluorometric enumeration of E. coli using passive chip**

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- XVII. **Numerical study on effects of computational domain length on flow field in standing wave thermoacoustic couple**

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- XVIII. **SERS-based ultrafast and sensitive detection of luteinizing hormone in human serum using a passive microchip**

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SENSORS AND ACTUATORS B-CHEMICAL, vol.269, pp.314-321, 2018 (SCI-Expanded)

- XIX. **A novel zero-dead-volume sample loading interface for microfluidic devices: flexible hydraulic reservoir (FHR)**

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- XX. **Analysis and testing of a contraction-and-expansion micromixer for micromilled microfluidics**

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- XXI. **Implementation and characterization of an absorption filter for on-chip fluorescent imaging**

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- XXII. **Investigation on replication of microfluidic channels by hot embossing**

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- XXIII. **Phaseguide assisted liquid lamination for magnetic particle-based assays**

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- XXIV. **Phaseguides as tunable passive microvalves for liquid routing in complex microfluidic networks**

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- XXV. **A normally closed electrostatic parylene microvalve for micro total analysis systems**
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- XXVI. **Electrostatic energy harvesting by droplet-based multi-phase microfluidics**
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- XXVII. **Analysis and characterization of an electrostatically actuated in-plane parylene microvalve**
 Yildirim E., KÜLAH H.
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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 Bütünlesik bir Elektrostatik Mikro Bükülme Test Yapısı Tasarımı ve Gerçeklestirilmesi**
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Books & Book Chapters

- I. **Litografi**
 Yıldırım E.
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- II. **Lab on a chip: A versatile integration with spectroscopic techniques**
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- III. **Otomatik Montaj Sistemleri**
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- IV. **Grup Teknoloji ve Hücresel İmalat**
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- V. **Otomatik Üretim Hatları**
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- VII. **Tek İstasyonlu İmalat Hücreleri**
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- IX. **Mikroakışkan Sistemlere Yönelik Gelecek Tahminleri**
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- X. **Mikroakışkan Sistemlerin Üretimi**
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- I. **Analysis of Acoustically Actuated Sedimentation Prevention System for Syringe Pumps**
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19th INTERNATIONAL CONFERENCE ON MACHINE DESIGN AND PRODUCTION, Aksaray, Turkey, 31 August 2022
- II. **Design of An Anti-Sedimentation Syringe Pump for Microfluidics Applications**
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- III. **A microfluidic platform for real-time enumeration and retrieval of low numberof cells**
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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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- 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 OFINERTIAL CELL FOCUSING IN A CONTRACTION-EXPANSION ARRAY (CEA) MICROCHANNEL**
Atik A. C., Yıldırım E., Külah H.
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- VIII. **Mikroakışkan sistemlerde immunolipozom destekli patojen bakteri tayini**

- Eryılmaz M., İlbaşmış Tamer S., Tayyarcan E. K., Ekşi Koçak H., Yıldırım E., Boyacı İ. H., Çetin D., Suludere Z., Tamer U. 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**
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- 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**
Sucularlı F., Yıldırım E., Arıkan M. A. S.
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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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- XIV. **Enumeration of Escherichia coli based on SERS technique in a passive type microfluidic chip**
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- XV. **Determination of Electrical Heterogeneities in Cell Lines by Dielectrophoresis Utilizing High Conductivity Buffers**
Demircan Yalçın Y., Töral T. B., Sukas S., KÜLAH H., YILDIRIM E., Zorlu Ö.
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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**
Kasap E. N., Çoğun F., Yıldırım E., Doğan Ü., Boyacı İ. H., Çetin D., Suludere Z., Tamer U., Ertaş N.
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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**

- Yıldırım B., Pank B. K., Keçeci E., Totuk O., YILDIRIM E.
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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., COĞUN F., Varol C., Totuk O. H., YILDIRIM E.
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- 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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- XXVIII. Reconfigurable Microfluidic Transmitarray Unit Cells**
 Erdil E., Kaan T., Zorlu Ö., Toral T., Yıldırım E., KÜLAH H., ÖZLEM C. A.
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- XXIX. Reconfigurable Microfluidic Transmitarray Unit Cell**
 Erdil E., Topalli 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**
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- XXXI. A Droplet based Multi-Drug Screening System Controlled with Electrostatic Microvalves**
 YILDIRIM E., Özgür E., KÜLAH H.
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- XXXII. Analysis and Testing of a Micromixer for Precision Milled Microchannel Networks**
 YILDIRIM E.
 EMBL Conference: Microfluidics 2012, 25 - 27 July 2012
- XXXIII. An electrostatically actuated parylene microvalve for lab on a chip applications**
 YILDIRIM E., ARIKAN M. A. S., KÜLAH H.
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- 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
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- XXXVI. An electrostatic parylene microvalve for controlling in plane flow**
 YILDIRIM E., Koyuncuoğlu A., KÜLAH H.
 13. International Conference on Miniaturized Systems for Chemistry and Life Sciences, 1 - 05 November 2009

Metrics

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Non Academic Experience

2012 - 2013 Leiden University Academic Center for Drug Research