

Kuangwen Hsieh

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52
papers

1,839
citations

21
h-index

42
g-index

66
ext. papers

2,335
ext. citations

8.7
avg, IF

4.93
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 52 | Real-time, aptamer-based tracking of circulating therapeutic agents in living animals. <i>Science Translational Medicine</i> , 2013 , 5, 213ra165 | 17.5 | 202 |
| 51 | Rapid, sensitive, and quantitative detection of pathogenic DNA at the point of care through microfluidic electrochemical quantitative loop-mediated isothermal amplification. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 4896-900 | 16.4 | 193 |
| 50 | Genetic analysis of H1N1 influenza virus from throat swab samples in a microfluidic system for point-of-care diagnostics. <i>Journal of the American Chemical Society</i> , 2011 , 133, 9129-35 | 16.4 | 160 |
| 49 | Integrated electrochemical microsystems for genetic detection of pathogens at the point of care. <i>Accounts of Chemical Research</i> , 2015 , 48, 911-20 | 24.3 | 116 |
| 48 | Integrated microfluidic electrochemical DNA sensor. <i>Analytical Chemistry</i> , 2009 , 81, 6503-8 | 7.8 | 114 |
| 47 | Simultaneous elimination of carryover contamination and detection of DNA with uracil-DNA-glycosylase-supplemented loop-mediated isothermal amplification (UDG-LAMP). <i>Chemical Communications</i> , 2014 , 50, 3747-9 | 5.8 | 110 |
| 46 | Controlled delivery of DNA origami on patterned surfaces. <i>Small</i> , 2009 , 5, 1942-6 | 11 | 76 |
| 45 | Quantification of transcription factor binding in cell extracts using an electrochemical, structure-switching biosensor. <i>Journal of the American Chemical Society</i> , 2012 , 134, 3346-8 | 16.4 | 71 |
| 44 | Electrochemical DNA detection via exonuclease and target-catalyzed transformation of surface-bound probes. <i>Langmuir</i> , 2010 , 26, 10392-6 | 4 | 70 |
| 43 | Accelerating bacterial growth detection and antimicrobial susceptibility assessment in integrated picoliter droplet platform. <i>Biosensors and Bioelectronics</i> , 2017 , 97, 260-266 | 11.8 | 65 |
| 42 | Wash-free, electrochemical platform for the quantitative, multiplexed detection of specific antibodies. <i>Analytical Chemistry</i> , 2012 , 84, 1098-103 | 7.8 | 57 |
| 41 | Rapid, Sensitive, and Quantitative Detection of Pathogenic DNA at the Point of Care through Microfluidic Electrochemical Quantitative Loop-Mediated Isothermal Amplification. <i>Angewandte Chemie</i> , 2012 , 124, 4980-4984 | 3.6 | 55 |
| 40 | Electrochemical real-time nucleic acid amplification: towards point-of-care quantification of pathogens. <i>Trends in Biotechnology</i> , 2013 , 31, 704-12 | 15.1 | 50 |
| 39 | Polarity-switching electrochemical sensor for specific detection of single-nucleotide mismatches. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 11176-80 | 16.4 | 49 |
| 38 | Integrated Bacterial Identification and Antimicrobial Susceptibility Testing Using PCR and High-Resolution Melt. <i>Analytical Chemistry</i> , 2017 , 89, 11529-11536 | 7.8 | 41 |
| 37 | Digital CRISPR/Cas-Assisted Assay for Rapid and Sensitive Detection of SARS-CoV-2. <i>Advanced Science</i> , 2021 , 8, 2003564 | 13.6 | 36 |
| 36 | Droplet microfluidics for high-sensitivity and high-throughput detection and screening of disease biomarkers. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2018 , 10, e1522 | 9.2 | 36 |

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|----|---|------|----|
| 35 | Simple and Precise Counting of Viable Bacteria by Resazurin-Amplified Picoarray Detection. <i>Analytical Chemistry</i> , 2018 , 90, 9449-9456 | 7.8 | 33 |
| 34 | Nanoarray Digital Polymerase Chain Reaction with High-Resolution Melt for Enabling Broad Bacteria Identification and Pheno-Molecular Antimicrobial Susceptibility Test. <i>Analytical Chemistry</i> , 2019 , 91, 12784-12792 | 7.8 | 32 |
| 33 | Point-of-care CRISPR-Cas-assisted SARS-CoV-2 detection in an automated and portable droplet magnetofluidic device. <i>Biosensors and Bioelectronics</i> , 2021 , 190, 113390 | 11.8 | 23 |
| 32 | Accurate zygote-specific discrimination of single-nucleotide polymorphisms using microfluidic electrochemical DNA melting curves. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 3163-7 | 16.4 | 22 |
| 31 | Optimizing peptide nucleic acid probes for hybridization-based detection and identification of bacterial pathogens. <i>Analyst, The</i> , 2019 , 144, 1565-1574 | 5 | 21 |
| 30 | Manipulation of magnetic particles by patterned arrays of magnetic spin-valve traps. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 311, 401-404 | 2.8 | 20 |
| 29 | Emerging Analytical Techniques for Rapid Pathogen Identification and Susceptibility Testing. <i>Annual Review of Analytical Chemistry</i> , 2019 , 12, 41-67 | 12.5 | 19 |
| 28 | Applying biosensor development concepts to improve preamplification-free CRISPR/Cas12a-Dx. <i>Analyst, The</i> , 2020 , 145, 4880-4888 | 5 | 16 |
| 27 | A parallelized microfluidic DNA bisulfite conversion module for streamlined methylation analysis. <i>Biomedical Microdevices</i> , 2016 , 18, 5 | 3.7 | 16 |
| 26 | An integrated microfluidic platform for negative selection and enrichment of cancer cells. <i>Journal of Micromechanics and Microengineering</i> , 2015 , 25, 084007 | 2 | 13 |
| 25 | Microfluidic platforms for discovery and detection of molecular biomarkers. <i>Microfluidics and Nanofluidics</i> , 2014 , 16, 941-963 | 2.8 | 13 |
| 24 | Advances in Directly Amplifying Nucleic Acids from Complex Samples. <i>Biosensors</i> , 2019 , 9, | 5.9 | 12 |
| 23 | Accurate Zygote-Specific Discrimination of Single-Nucleotide Polymorphisms Using Microfluidic Electrochemical DNA Melting Curves. <i>Angewandte Chemie</i> , 2014 , 126, 3227-3231 | 3.6 | 10 |
| 22 | Compliant electrodes based on platinum salt reduction in a urethane matrix. <i>Smart Materials and Structures</i> , 2007 , 16, S272-S279 | 3.4 | 9 |
| 21 | Ratiometric Fluorescence Coding for Multiplex Nucleic Acid Amplification Testing. <i>Analytical Chemistry</i> , 2018 , 90, 12180-12186 | 7.8 | 8 |
| 20 | Rapid Microbiology Screening in Pharmaceutical Workflows. <i>SLAS Technology</i> , 2018 , 23, 387-394 | 3 | 7 |
| 19 | Customizing droplet contents and dynamic ranges via integrated programmable picodroplet assembler. <i>Microsystems and Nanoengineering</i> , 2019 , 5, 22 | 7.7 | 7 |
| 18 | Droplet-Based Single-Cell Measurements of 16S rRNA Enable Integrated Bacteria Identification and Pheno-Molecular Antimicrobial Susceptibility Testing from Clinical Samples in 30 min. <i>Advanced Science</i> , 2021 , 8, 2003419 | 13.6 | 7 |

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|----|--|------|---|
| 17 | Programmable microfluidic genotyping of plant DNA samples for marker-assisted selection. <i>Microsystems and Nanoengineering</i> , 2018 , 4, | 7.7 | 6 |
| 16 | Polarity-Switching Electrochemical Sensor for Specific Detection of Single-Nucleotide Mismatches. <i>Angewandte Chemie</i> , 2011 , 123, 11372-11376 | 3.6 | 6 |
| 15 | Enhancing Throughput of Combinatorial Droplet Devices via Droplet Bifurcation, Parallelized Droplet Fusion, and Parallelized Detection. <i>Micromachines</i> , 2015 , 6, 1490-1504 | 3.3 | 5 |
| 14 | Novel compliant electrodes based on platinum salt reduction 2006 , 6168, 474 | | 5 |
| 13 | Toward Decentralizing Antibiotic Susceptibility Testing via Ready-to-Use Microwell Array and Resazurin-Aided Colorimetric Readout. <i>Analytical Chemistry</i> , 2021 , 93, 1260-1265 | 7.8 | 3 |
| 12 | Facile Coupling of Droplet Magnetofluidic-Enabled Automated Sample Preparation for Digital Nucleic Acid Amplification Testing and Analysis. <i>Analytical Chemistry</i> , 2020 , 92, 13254-13261 | 7.8 | 3 |
| 11 | A Cascaded Droplet Microfluidic Platform Enables High-Throughput Single Cell Antibiotic Susceptibility Testing at Scale.. <i>Small Methods</i> , 2022 , 6, e2101254 | 12.8 | 2 |
| 10 | Digital electrical impedance analysis for single bacterium sensing and antimicrobial susceptibility testing. <i>Lab on A Chip</i> , 2021 , 21, 1073-1083 | 7.2 | 2 |
| 9 | Magnetofluidic immuno-PCR for point-of-care COVID-19 serological testing. <i>Biosensors and Bioelectronics</i> , 2022 , 195, 113656 | 11.8 | 2 |
| 8 | Facile syringe filter-enabled bacteria separation, enrichment, and buffer exchange for clinical isolation-free digital detection and characterization of bacterial pathogens in urine. <i>Analyst, The</i> , 2021 , 146, 2475-2483 | 5 | 2 |
| 7 | Electrode-Free Concentration and Recovery of DNA at Physiologically Relevant Ionic Concentrations. <i>Analytical Chemistry</i> , 2020 , 92, 6150-6157 | 7.8 | 1 |
| 6 | Spatially encoded picoliter droplet groups for high-throughput combinatorial analysis 2017 , | | 1 |
| 5 | A vacuum-assisted, highly parallelized microfluidic array for performing multi-step digital assays. <i>Lab on A Chip</i> , 2021 , 21, 4716-4724 | 7.2 | 1 |
| 4 | A Highly Sensitive Point-of-Care Covid-19 Serological Test using Immuno-PCR in 35 Mins 2021 , | | 1 |
| 3 | Portable Magnetofluidic Device for Point-of-Need Detection of African Swine Fever. <i>Analytical Chemistry</i> , 2021 , 93, 10940-10946 | 7.8 | 1 |
| 2 | Integrated Bacterial Identification and Antimicrobial Susceptibility Testing for Polymicrobial Infections Using Digital PCR and Digital High-Resolution Melt in a Microfluidic Array Platform. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 5346-5349 | 0.9 | 0 |
| 1 | A Portable Droplet Magnetofluidic Device for Point-of-Care Detection of Multidrug-Resistant .. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 826694 | 5.8 | 0 |