Kuangwen Hsieh

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Real-Time, Aptamer-Based Tracking of Circulating Therapeutic Agents in Living Animals. Science Translational Medicine, 2013, 5, 213ra165.	12.4	291
2	Rapid, Sensitive, and Quantitative Detection of Pathogenic DNA at the Point of Care through Microfluidic Electrochemical Quantitative Loopâ€Mediated Isothermal Amplification. Angewandte Chemie - International Edition, 2012, 51, 4896-4900.	13.8	230
3	Genetic Analysis of H1N1 Influenza Virus from Throat Swab Samples in a Microfluidic System for Point-of-Care Diagnostics. Journal of the American Chemical Society, 2011, 133, 9129-9135.	13.7	178
4	Simultaneous elimination of carryover contamination and detection of DNA with uracil-DNA-glycosylase-supplemented loop-mediated isothermal amplification (UDG-LAMP). Chemical Communications, 2014, 50, 3747.	4.1	146
5	Integrated Electrochemical Microsystems for Genetic Detection of Pathogens at the Point of Care. Accounts of Chemical Research, 2015, 48, 911-920.	15.6	135
6	Integrated Microfluidic Electrochemical DNA Sensor. Analytical Chemistry, 2009, 81, 6503-6508.	6.5	130
7	Digital CRISPR/Casâ€Assisted Assay for Rapid and Sensitive Detection of SARSâ€CoVâ€2. Advanced Science, 2021, 8, 2003564.	11.2	116
8	Accelerating bacterial growth detection and antimicrobial susceptibility assessment in integrated picoliter droplet platform. Biosensors and Bioelectronics, 2017, 97, 260-266.	10.1	112
9	Quantification of Transcription Factor Binding in Cell Extracts Using an Electrochemical, Structure-Switching Biosensor. Journal of the American Chemical Society, 2012, 134, 3346-3348.	13.7	81
10	Controlled Delivery of DNA Origami on Patterned Surfaces. Small, 2009, 5, 1942-1946.	10.0	80
11	Electrochemical DNA Detection via Exonuclease and Target-Catalyzed Transformation of Surface-Bound Probes. Langmuir, 2010, 26, 10392-10396.	3.5	72
12	Simple and Precise Counting of Viable Bacteria by Resazurin-Amplified Picoarray Detection. Analytical Chemistry, 2018, 90, 9449-9456.	6.5	65
13	Point-of-care CRISPR-Cas-assisted SARS-CoV-2 detection in an automated and portable droplet magnetofluidic device. Biosensors and Bioelectronics, 2021, 190, 113390.	10.1	65
14	Wash-free, Electrochemical Platform for the Quantitative, Multiplexed Detection of Specific Antibodies. Analytical Chemistry, 2012, 84, 1098-1103.	6.5	64
15	Electrochemical real-time nucleic acid amplification: towards point-of-care quantification of pathogens. Trends in Biotechnology, 2013, 31, 704-712.	9.3	63
16	Nanoarray Digital Polymerase Chain Reaction with High-Resolution Melt for Enabling Broad Bacteria Identification and Pheno–Molecular Antimicrobial Susceptibility Test. Analytical Chemistry, 2019, 91, 12784-12792.	6.5	63
17	Integrated Bacterial Identification and Antimicrobial Susceptibility Testing Using PCR and High-Resolution Melt. Analytical Chemistry, 2017, 89, 11529-11536.	6.5	61
18	Droplet microfluidics for highâ€sensitivity and highâ€throughput detection and screening of disease biomarkers. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2018, 10, e1522.	6.1	60

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19	Polarityâ€Switching Electrochemical Sensor for Specific Detection of Singleâ€Nucleotide Mismatches. Angewandte Chemie - International Edition, 2011, 50, 11176-11180.	13.8	51
20	Emerging Analytical Techniques for Rapid Pathogen Identification and Susceptibility Testing. Annual Review of Analytical Chemistry, 2019, 12, 41-67.	5.4	45
21	Applying biosensor development concepts to improve preamplification-free CRISPR/Cas12a-Dx. Analyst, The, 2020, 145, 4880-4888.	3.5	30
22	Accurate Zygoteâ€Specific Discrimination of Singleâ€Nucleotide Polymorphisms Using Microfluidic Electrochemical DNA Melting Curves. Angewandte Chemie - International Edition, 2014, 53, 3163-3167.	13.8	29
23	Dropletâ€Based Singleâ€Cell Measurements of 16S rRNA Enable Integrated Bacteria Identification and Phenoâ€Molecular Antimicrobial Susceptibility Testing from Clinical Samples in 30Âmin. Advanced Science, 2021, 8, 2003419.	11.2	29
24	Advances in Directly Amplifying Nucleic Acids from Complex Samples. Biosensors, 2019, 9, 117.	4.7	27
25	Optimizing peptide nucleic acid probes for hybridization-based detection and identification of bacterial pathogens. Analyst, The, 2019, 144, 1565-1574.	3.5	27
26	Manipulation of magnetic particles by patterned arrays of magnetic spin-valve traps. Journal of Magnetism and Magnetic Materials, 2007, 311, 401-404.	2.3	23
27	A parallelized microfluidic DNA bisulfite conversion module for streamlined methylation analysis. Biomedical Microdevices, 2016, 18, 5.	2.8	22
28	Customizing droplet contents and dynamic ranges via integrated programmable picodroplet assembler. Microsystems and Nanoengineering, 2019, 5, 22.	7.0	20
29	Combating Antimicrobial Resistance via Single-Cell Diagnostic Technologies Powered by Droplet Microfluidics. Accounts of Chemical Research, 2022, 55, 123-133.	15.6	19
30	Microfluidic platforms for discovery and detection of molecular biomarkers. Microfluidics and Nanofluidics, 2014, 16, 941-963.	2.2	18
31	Digital electrical impedance analysis for single bacterium sensing and antimicrobial susceptibility testing. Lab on A Chip, 2021, 21, 1073-1083.	6.0	18
32	Magnetofluidic immuno-PCR for point-of-care COVID-19 serological testing. Biosensors and Bioelectronics, 2022, 195, 113656.	10.1	18
33	Toward Decentralizing Antibiotic Susceptibility Testing via Ready-to-Use Microwell Array and Resazurin-Aided Colorimetric Readout. Analytical Chemistry, 2021, 93, 1260-1265.	6.5	17
34	A Cascaded Droplet Microfluidic Platform Enables Highâ€Throughput Single Cell Antibiotic Susceptibility Testing at Scale. Small Methods, 2022, 6, e2101254.	8.6	17
35	Ratiometric Fluorescence Coding for Multiplex Nucleic Acid Amplification Testing. Analytical Chemistry, 2018, 90, 12180-12186.	6.5	16
36	An integrated microfluidic platform for negative selection and enrichment of cancer cells. Journal of Micromechanics and Microengineering, 2015, 25, 084007.	2.6	15

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#	Article	IF	CITATIONS
37	Portable Magnetofluidic Device for Point-of-Need Detection of African Swine Fever. Analytical Chemistry, 2021, 93, 10940-10946.	6.5	13
38	Bridging the gap between development of point-of-care nucleic acid testing and patient care for sexually transmitted infections. Lab on A Chip, 2022, 22, 476-511.	6.0	13
39	Combinatorial nanodroplet platform for screening antibiotic combinations. Lab on A Chip, 2022, 22, 621-631.	6.0	12
40	Programmable microfluidic genotyping of plant DNA samples for marker-assisted selection. Microsystems and Nanoengineering, 2018, 4, .	7.0	11
41	Facile Coupling of Droplet Magnetofluidic-Enabled Automated Sample Preparation for Digital Nucleic Acid Amplification Testing and Analysis. Analytical Chemistry, 2020, 92, 13254-13261.	6.5	11
42	Facile syringe filter-enabled bacteria separation, enrichment, and buffer exchange for clinical isolation-free digital detection and characterization of bacterial pathogens in urine. Analyst, The, 2021, 146, 2475-2483.	3.5	11
43	Filtration-assisted magnetofluidic cartridge platform for HIV RNA detection from blood. Lab on A Chip, 2022, 22, 945-953.	6.0	11
44	Compliant electrodes based on platinum salt reduction in a urethane matrix. Smart Materials and Structures, 2007, 16, S272-S279.	3.5	10
45	Rapid Microbiology Screening in Pharmaceutical Workflows. SLAS Technology, 2018, 23, 387-394.	1.9	10
46	A vacuum-assisted, highly parallelized microfluidic array for performing multi-step digital assays. Lab on A Chip, 2021, 21, 4716-4724.	6.0	7
47	Enhancing Throughput of Combinatorial Droplet Devices via Droplet Bifurcation, Parallelized Droplet Fusion, and Parallelized Detection. Micromachines, 2015, 6, 1490-1504.	2.9	6
48	Novel compliant electrodes based on platinum salt reduction. , 2006, 6168, 474.		5
49	Electrode-Free Concentration and Recovery of DNA at Physiologically Relevant Ionic Concentrations. Analytical Chemistry, 2020, 92, 6150-6157.	6.5	4
50	Ratiometric PCR in a Portable Sample-to-Result Device for Broad-Based Pathogen Identification. Analytical Chemistry, 0, , .	6.5	4
51	Emerging platforms for high-throughput enzymatic bioassays. Trends in Biotechnology, 2023, 41, 120-133.	9.3	4
52	A Portable Droplet Magnetofluidic Device for Point-of-Care Detection of Multidrug-Resistant Candida auris. Frontiers in Bioengineering and Biotechnology, 2022, 10, 826694.	4.1	3
53	Spatially encoded picoliter droplet groups for high-throughput combinatorial analysis. , 2017, , .		1
54	Integrated Bacterial Identification and Antimicrobial Susceptibility Testing for Polymicrobial Infections Using Digital PCR and Digital High-Resolution Melt in a Microfluidic Array Platform. , 2018, 2018, 5346-5349.		1

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55	Rapid Pathogen Detection and Antimicrobial Susceptibility Assessment from Urine Samples Via Amplification-Free Detection of Ribosomal RNA of Single-Bacteria. , 2019, , .		1
56	A Tubing-Free Sample-to-Droplet Interface Enables Facile Sample Loading of Droplet Microfluidics Device Toward High-Throughput Screening. , 2021, , .		1
57	A Highly Sensitive Point-of-Care Covid-19 Serological Test using Immuno-PCR in 35 Mins. , 2021, , .		1
58	A Programmable Nanodroplet Device with Direct Sample-to-Droplet Interface toward High-Throughput Screening. , 2020, , .		1
59	DropPNA-GO: A Single-cell Uropathogen Sensor Based on PNA Probes and Graphene Oxide in Picoliter Droplets. , 2020, , .		0
60	Robotic Printed Combinatorial Droplet (RoboDrop) for Antibiotic Combination Screening. , 2022, , .		0