Umer Hassan

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3143717/publications.pdf Version: 2024-02-01



LIMED HASSAN

#	Article	IF	CITATIONS
1	Microfluidic CD4 ⁺ and CD8 ⁺ T Lymphocyte Counters for Point-of-Care HIV Diagnostics Using Whole Blood. Science Translational Medicine, 2013, 5, 214ra170.	5.8	128
2	Point-of-care sensors for the management of sepsis. Nature Biomedical Engineering, 2018, 2, 640-648.	11.6	100
3	Reducing noise by repetition: introduction to signal averaging. European Journal of Physics, 2010, 31, 453-465.	0.3	62
4	Combining Biomarkers with EMR Data to Identify Patients in Different Phases of Sepsis. Scientific Reports, 2017, 7, 10800.	1.6	59
5	Salvadora persica mediated synthesis of silver nanoparticles and their antimicrobial efficacy. Scientific Reports, 2021, 11, 5996.	1.6	54
6	Flow metering characterization within an electrical cell counting microfluidic device. Lab on A Chip, 2014, 14, 1469.	3.1	45
7	A microfluidic biochip for complete blood cell counts at the point-of-care. Technology, 2015, 03, 201-213.	1.4	43
8	Microfluidic differential immunocapture biochip for specific leukocyte counting. Nature Protocols, 2016, 11, 714-726.	5.5	39
9	Coincidence detection of heterogeneous cell populations from whole blood with coplanar electrodes in a microfluidic impedance cytometer. Lab on A Chip, 2014, 14, 4370-4381.	3.1	32
10	Electrical cell counting process characterization in a microfluidic impedance cytometer. Biomedical Microdevices, 2014, 16, 697-704.	1.4	27
11	A microfluidic biochip platform for electrical quantification of proteins. Lab on A Chip, 2018, 18, 1461-1470.	3.1	26
12	Smartphone-imaged microfluidic biochip for measuring CD64 expression from whole blood. Analyst, The, 2019, 144, 3925-3935.	1.7	23
13	Video-based spatial portraits of a nonlinear vibrating string. American Journal of Physics, 2012, 80, 862-869.	0.3	13
14	Design of a Multiplexed Analyte Biosensor using Digital Barcoded Particles and Impedance Spectroscopy. Scientific Reports, 2020, 10, 6109.	1.6	12
15	A modular microscopic smartphone attachment for imaging and quantification of multiple fluorescent probes using machine learning. Analyst, The, 2021, 146, 2531-2541.	1.7	12
16	Multivariate computational analysis of biosensor's data for improved CD64 quantification for sepsis diagnosis. Lab on A Chip, 2018, 18, 1231-1240.	3.1	10
17	Pointâ€ofâ€criticalâ€care diagnostics for sepsis enabled by multiplexed micro and nano sensing technologies. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2021, 13, e1701.	3.3	10
18	Timeâ€domain signal averaging to improve microparticles detection and enumeration accuracy in a microfluidic impedance cytometer. Biotechnology and Bioengineering, 2021, 118, 4428-4440.	1.7	9

Umer Hassan

#	Article	IF	CITATIONS
19	De-novo fabrication of sunlight irradiated silver nanoparticles and their efficacy against E. coli and S. epidermidis. Scientific Reports, 2022, 12, 676.	1.6	9
20	Biochip with multi-planar electrodes geometry for differentiation of non-spherical bioparticles in a microchannel. Scientific Reports, 2021, 11, 11880.	1.6	7
21	Functionalization of hybrid surface microparticles for in vitro cellular antigen classification. Analytical and Bioanalytical Chemistry, 2021, 413, 555-564.	1.9	6
22	Circular shaped microelectrodes for single cell electrical measurements for lab-on-a-chip applications. Biomedical Microdevices, 2021, 23, 35.	1.4	6
23	Profiling single-cell level phagocytic activity distribution with blood lactate levels. RSC Advances, 2021, 11, 21315-21322.	1.7	5
24	Inexpensive Data Acquisition with a Sound Card. Physics Teacher, 2011, 49, 537-539.	0.2	4
25	A microfluidic technique to estimate antigen expression on particles. APL Bioengineering, 2017, 1, 016103.	3.3	4
26	Detecting sepsis by observing neutrophil motility. Nature Biomedical Engineering, 2018, 2, 197-198.	11.6	4
27	Smartphone Based Microfluidic Biosensor for Leukocyte Quantification at the Point-of-Care. , 2019, , .		4
28	Point-of-Care 3-D Printed Spectrophotometer for Therapeutic Drug Monitoring in Tuberculosis Patients. , 2021, 5, 1-4.		4
29	Exceedingly Sensitive Restructured Electrodes Design for Pathogen Morphology Detection using Impedance Flow Cytometry. , 2020, 2020, 2500-2503.		3
30	Particle Quantification from a Smartphone-based Biosensor using Deep Convolutional Neural Network for Clinical Diagnosis. , 2022, , .		3
31	Aluminum Oxide-Coated Particle Differentiation Employing Supervised Machine Learning and Impedance Cytometry. , 2022, , .		3
32	Investigating properties of white noise in the undergraduate laboratory. European Journal of Physics, 2009, 30, 1143-1151.	0.3	1
33	Magnetic Phagocyte Quantification Framework for Point-of-Care Diagnostics. , 2019, , .		1
34	Investigating Cell-Particle Conjugate Orientations in a Microfluidic Channel to Ameliorate Impedance-based Signal Acquisition and Detection*. , 2021, 2021, 7233-7236.		1
35	Frequency-Time Domain (FTD) Impedance Data Analysis to Improve Accuracy of Microparticle Enumeration in a Microfluidic Electronic Counter. , 2021, 2021, 1201-1204.		1
36	Bioelectronic Sensor with Magnetic Modulation to Quantify Phagocytic Activity of Blood Cells Employing Machine Learning. ACS Sensors, 2022, 7, 1936-1945.	4.0	1

Umer Hassan

#	Article	IF	CITATIONS
37	Electrical flow metering of blood for point-of-care diagnostics. , 2012, 2012, 3255-7.		0
38	Research Highlights: Highlights from the latest articles in nanomedicine. Nanomedicine, 2013, 8, 1369-1371.	1.7	0
39	Biomedical micro and nanotechnology: From lab-on-chip to building with cells. , 2013, , .		0
40	Conjugated Barcoded Particles for Multiplexed Biomarker Quantification with a Microfluidic Biochip. , 2019, , .		0
41	A Bioelectronic Hand-Held Spectrophotometer for Biospecimen Analysis for Global Health Applications. , 2022, , .		0
42	Synthesis and Immobilization of Silver Nanoparticles on Filter Paper and Surgical Masks for Antimicrobial Applications. , 2022, , .		0