

# Umer Hassan

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

771  
citations

759055

12  
h-index

526166

27  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1078  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	A Bioelectronic Hand-Held Spectrophotometer for Biospecimen Analysis for Global Health Applications. , 2022, , .		0
3	Particle Quantification from a Smartphone-based Biosensor using Deep Convolutional Neural Network for Clinical Diagnosis. , 2022, , .		3
4	Synthesis and Immobilization of Silver Nanoparticles on Filter Paper and Surgical Masks for Antimicrobial Applications. , 2022, , .		0
5	Aluminum Oxide-Coated Particle Differentiation Employing Supervised Machine Learning and Impedance Cytometry. , 2022, , .		3
6	Bioelectronic Sensor with Magnetic Modulation to Quantify Phagocytic Activity of Blood Cells Employing Machine Learning. ACS Sensors, 2022, 7, 1936-1945.	4.0	1
7	Functionalization of hybrid surface microparticles for in vitro cellular antigen classification. Analytical and Bioanalytical Chemistry, 2021, 413, 555-564.	1.9	6
8	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
9	Profiling single-cell level phagocytic activity distribution with blood lactate levels. RSC Advances, 2021, 11, 21315-21322.	1.7	5
10	Salvadora persica mediated synthesis of silver nanoparticles and their antimicrobial efficacy. Scientific Reports, 2021, 11, 5996.	1.6	54
11	Point-of-Care diagnostics for sepsis enabled by multiplexed micro and nano sensing technologies. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2021, 13, e1701.	3.3	10
12	Biochip with multi-planar electrodes geometry for differentiation of non-spherical bioparticles in a microchannel. Scientific Reports, 2021, 11, 11880.	1.6	7
13	Circular shaped microelectrodes for single cell electrical measurements for lab-on-a-chip applications. Biomedical Microdevices, 2021, 23, 35.	1.4	6
14	Time-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
15	Point-of-Care 3-D Printed Spectrophotometer for Therapeutic Drug Monitoring in Tuberculosis Patients. , 2021, 5, 1-4.		4
16	Investigating Cell-Particle Conjugate Orientations in a Microfluidic Channel to Ameliorate Impedance-based Signal Acquisition and Detection*. , 2021, 2021, 7233-7236.		1
17	Frequency-Time Domain (FTD) Impedance Data Analysis to Improve Accuracy of Microparticle Enumeration in a Microfluidic Electronic Counter. , 2021, 2021, 1201-1204.		1
18	Exceedingly Sensitive Restructured Electrodes Design for Pathogen Morphology Detection using Impedance Flow Cytometry. , 2020, 2020, 2500-2503.		3

#	ARTICLE	IF	CITATIONS
19	Design of a Multiplexed Analyte Biosensor using Digital Barcoded Particles and Impedance Spectroscopy. Scientific Reports, 2020, 10, 6109.	1.6	12
20	Smartphone-imaged microfluidic biochip for measuring CD64 expression from whole blood. Analyst, The, 2019, 144, 3925-3935.	1.7	23
21	Conjugated Barcoded Particles for Multiplexed Biomarker Quantification with a Microfluidic Biochip. , 2019, , .		0
22	Magnetic Phagocyte Quantification Framework for Point-of-Care Diagnostics. , 2019, , .		1
23	Smartphone Based Microfluidic Biosensor for Leukocyte Quantification at the Point-of-Care. , 2019, , .		4
24	A microfluidic biochip platform for electrical quantification of proteins. Lab on A Chip, 2018, 18, 1461-1470.	3.1	26
25	Detecting sepsis by observing neutrophil motility. Nature Biomedical Engineering, 2018, 2, 197-198.	11.6	4
26	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
27	Point-of-care sensors for the management of sepsis. Nature Biomedical Engineering, 2018, 2, 640-648.	11.6	100
28	A microfluidic technique to estimate antigen expression on particles. APL Bioengineering, 2017, 1, 016103.	3.3	4
29	Combining Biomarkers with EMR Data to Identify Patients in Different Phases of Sepsis. Scientific Reports, 2017, 7, 10800.	1.6	59
30	Microfluidic differential immunocapture biochip for specific leukocyte counting. Nature Protocols, 2016, 11, 714-726.	5.5	39
31	A microfluidic biochip for complete blood cell counts at the point-of-care. Technology, 2015, 03, 201-213.	1.4	43
32	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
33	Flow metering characterization within an electrical cell counting microfluidic device. Lab on A Chip, 2014, 14, 1469.	3.1	45
34	Electrical cell counting process characterization in a microfluidic impedance cytometer. Biomedical Microdevices, 2014, 16, 697-704.	1.4	27
35	Research Highlights: Highlights from the latest articles in nanomedicine. Nanomedicine, 2013, 8, 1369-1371.	1.7	0
36	Microfluidic CD4 <sup>+</sup> and CD8 <sup>+</sup> T Lymphocyte Counters for Point-of-Care HIV Diagnostics Using Whole Blood. Science Translational Medicine, 2013, 5, 214ra170.	5.8	128

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37	Biomedical micro and nanotechnology: From lab-on-chip to building with cells. , 2013, , .		0
38	Electrical flow metering of blood for point-of-care diagnostics. , 2012, 2012, 3255-7.		0
39	Video-based spatial portraits of a nonlinear vibrating string. American Journal of Physics, 2012, 80, 862-869.	0.3	13
40	Inexpensive Data Acquisition with a Sound Card. Physics Teacher, 2011, 49, 537-539.	0.2	4
41	Reducing noise by repetition: introduction to signal averaging. European Journal of Physics, 2010, 31, 453-465.	0.3	62
42	Investigating properties of white noise in the undergraduate laboratory. European Journal of Physics, 2009, 30, 1143-1151.	0.3	1