

# Wanida Laiwattanapaisal

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

1,521  
citations

393982

19  
h-index

315357

38  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1806  
citing authors

#	ARTICLE	IF	CITATIONS
1	Blood separation on microfluidic paper-based analytical devices. <i>Lab on A Chip</i> , 2012, 12, 3392.	3.1	285
2	Novel, simple and low-cost alternative method for fabrication of paper-based microfluidics by wax dipping. <i>Talanta</i> , 2011, 85, 2587-2593.	2.9	228
3	Electrochemical detection of glucose from whole blood using paper-based microfluidic devices. <i>Analytica Chimica Acta</i> , 2013, 788, 39-45.	2.6	191
4	Semi-quantitative visual detection of loop mediated isothermal amplification (LAMP)-generated DNA by distance-based measurement on a paper device. <i>Talanta</i> , 2017, 175, 135-142.	2.9	66
5	A novel paper-based assay for the simultaneous determination of Rh typing and forward and reverse ABO blood groups. <i>Biosensors and Bioelectronics</i> , 2015, 67, 485-489.	5.3	60
6	Portable microfluidic system for determination of urinary creatinine. <i>Analytica Chimica Acta</i> , 2009, 647, 78-83.	2.6	52
7	Nanomaterials-based electrochemical sensors and biosensors for the detection of non-steroidal anti-inflammatory drugs. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 143, 116403.	5.8	49
8	A facile low-cost enzymatic paper-based assay for the determination of urine creatinine. <i>Talanta</i> , 2015, 144, 915-921.	2.9	47
9	A multiplexed three-dimensional paper-based electrochemical impedance device for simultaneous label-free affinity sensing of total and glycated haemoglobin: The potential of using a specific single-frequency value for analysis. <i>Analytica Chimica Acta</i> , 2016, 936, 1-11.	2.6	41
10	A paper-based analytical device coupled with electrochemical detection for the determination of dexamethasone and prednisolone in adulterated traditional medicines. <i>Analytica Chimica Acta</i> , 2019, 1078, 16-23.	2.6	40
11	Development of Paper-Based Analytical Devices for Minimizing the Viscosity Effect in Human Saliva. <i>Theranostics</i> , 2018, 8, 3797-3807.	4.6	37
12	Label-free detection of C-reactive protein using an electrochemical DNA immunoassay. <i>Sensing and Bio-Sensing Research</i> , 2016, 8, 14-19.	2.2	36
13	Multifunctional Paper-Based Analytical Device for In Situ Cultivation and Screening of <i>Escherichia coli</i> Infections. <i>Scientific Reports</i> , 2019, 9, 1555.	1.6	35
14	Boronate-Modified Interdigitated Electrode Array for Selective Impedance-Based Sensing of Glycated Hemoglobin. <i>Analytical Chemistry</i> , 2016, 88, 9582-9589.	3.2	30
15	Simultaneous forward and reverse ABO blood group typing using a paper-based device and barcode-like interpretation. <i>Analytica Chimica Acta</i> , 2016, 921, 67-76.	2.6	29
16	A combined approach of hollow microneedles and nanocarriers for skin immunization with plasmid DNA encoding ovalbumin. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 885-898.	3.3	29
17	A folding affinity paper-based electrochemical impedance device for cardiovascular risk assessment. <i>Biosensors and Bioelectronics</i> , 2019, 130, 389-396.	5.3	29
18	On-Chip Immunoassay for Determination of Urinary Albumin. <i>Sensors</i> , 2009, 9, 10066-10079.	2.1	25

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19	Sensing by wireless reading Ag/AgCl redox conversion on RFID tag: universal, battery-less biosensor design. <i>Scientific Reports</i> , 2019, 9, 12948.	1.6	25
20	A simple and low-cost portable paper-based ABO blood typing device for point-of-care testing. <i>Journal of Immunoassay and Immunochemistry</i> , 2018, 39, 292-307.	0.5	20
21	An origami paper-based peptide nucleic acid device coupled with label-free DNAzyme probe hybridization chain reaction for prostate cancer molecular screening test. <i>Analytica Chimica Acta</i> , 2021, 1186, 339130.	2.6	17
22	Smartphone-based technique for the determination of a titration equivalence point from an RGB linear-segment curve with an example application to miniaturized titration of sodium chloride injections. <i>Talanta</i> , 2021, 233, 122602.	2.9	15
23	A new paper-based analytical device for detection of Glucose-6-phosphate dehydrogenase deficiency. <i>Talanta</i> , 2017, 164, 534-539.	2.9	14
24	<i>In situ</i> paper-based 3D cell culture for rapid screening of the anti-melanogenic activity. <i>Analyst</i> , 2019, 144, 290-298.	1.7	14
25	Paper-Based Competitive Immunochromatography Coupled with an Enzyme-Modified Electrode to Enable the Wireless Monitoring and Electrochemical Sensing of Cotinine in Urine. <i>Sensors</i> , 2021, 21, 1659.	2.1	13
26	A Simple Distance Paper-Based Analytical Device for the Screening of Lead in Food Matrices. <i>Biosensors</i> , 2021, 11, 90.	2.3	13
27	Selective label-free electrochemical impedance measurement of glycated haemoglobin on 3-aminophenylboronic acid-modified eggshell membranes. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5287-5297.	1.9	12
28	Passive micromixer integration with a microfluidic chip for calcium assay based on the arsenazo III method. <i>Biochip Journal</i> , 2011, 5, 1-7.	2.5	10
29	Chiral nanocomposite of sulfobutyl ether- $\beta$ -cyclodextrin embedded in carbon nanofibers for enantioselective electrochemical discrimination of amlodipine, metoprolol and clenbuterol enantiomers. <i>Journal of Materiomics</i> , 2021, 7, 226-235.	2.8	10
30	Simple sequential injection analysis system for rapid determination of microalbuminuria. <i>Talanta</i> , 2009, 79, 1104-1110.	2.9	9
31	Exploring Matrix Effects on Binding Properties and Characterization of Cotinine Molecularly Imprinted Polymer on Paper-Based Scaffold. <i>Polymers</i> , 2019, 11, 570.	2.0	9
32	A microfluidic paper-based analytical device for the assay of albumin-corrected fructosamine values from whole blood samples. <i>Bioanalysis</i> , 2015, 7, 79-90.	0.6	8
33	Simultaneous phenotyping of five Rh red blood cell antigens on a paper-based analytical device combined with deep learning for rapid and accurate interpretation. <i>Analytica Chimica Acta</i> , 2022, 1207, 339807.	2.6	7
34	A High-throughput Nonimmunological Method for Determination of Microalbuminuria Based on Utilization of Albumin Blue 580. <i>Laboratory Medicine</i> , 2008, 39, 727-729.	0.8	5
35	Impedance-Based E-Screen Cell Biosensor for the Real-Time Screening of Xenoestrogenic Compounds. <i>ACS ES&amp;T Water</i> , 2022, 2, 446-456.	2.3	5
36	Fast, affordable and eco-friendly enzyme kinetic method for the assay of $\alpha$ -ketoglutaric acid in medical product and sports supplements. <i>Enzyme and Microbial Technology</i> , 2018, 116, 72-76.	1.6	3

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37	Paper-Based Analytical Device for Real-Time Monitoring of Egg Hatching in the Model Nematode <i>Caenorhabditis elegans</i> . ACS Sensors, 2020, 5, 1750-1757.	4.0	1
38	Impedimetric melanoma invasion assay device using a simple paper membrane and stencil-printed electrode on PMMA substrate. Sensing and Bio-Sensing Research, 2020, 29, 100354.	2.2	1
39	Blood separation on microfluidic paper-based analytical devices. , 0, .		1