

Wijitar Dungchai

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7867109/publications.pdf>

Version: 2024-02-01

49
papers

5,063
citations

218592

26
h-index

214721

47
g-index

49
all docs

49
docs citations

49
times ranked

4451
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical Detection for Paper-Based Microfluidics. <i>Analytical Chemistry</i> , 2009, 81, 5821-5826.	3.2	1,050
2	A low-cost, simple, and rapid fabrication method for paper-based microfluidics using wax screen-printing. <i>Analyst, The</i> , 2011, 136, 77-82.	1.7	537
3	Use of multiple colorimetric indicators for paper-based microfluidic devices. <i>Analytica Chimica Acta</i> , 2010, 674, 227-233.	2.6	314
4	Multilayer Paper-Based Device for Colorimetric and Electrochemical Quantification of Metals. <i>Analytical Chemistry</i> , 2014, 86, 3555-3562.	3.2	288
5	Blood separation on microfluidic paper-based analytical devices. <i>Lab on A Chip</i> , 2012, 12, 3392.	3.1	285
6	Simple, distance-based measurement for paper analytical devices. <i>Lab on A Chip</i> , 2013, 13, 2397.	3.1	281
7	Lab-on-Paper with Dual Electrochemical/Colorimetric Detection for Simultaneous Determination of Gold and Iron. <i>Analytical Chemistry</i> , 2010, 82, 1727-1732.	3.2	251
8	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
9	Electrochemical detection of glucose from whole blood using paper-based microfluidic devices. <i>Analytica Chimica Acta</i> , 2013, 788, 39-45.	2.6	191
10	Simple silver nanoparticle colorimetric sensing for copper by paper-based devices. <i>Talanta</i> , 2012, 99, 552-557.	2.9	183
11	Determination of trace heavy metals in herbs by sequential injection analysis-anodic stripping voltammetry using screen-printed carbon nanotubes electrodes. <i>Analytica Chimica Acta</i> , 2010, 668, 54-60.	2.6	146
12	Nanoparticle-based electrochemical detection in conventional and miniaturized systems and their bioanalytical applications: A review. <i>Analytica Chimica Acta</i> , 2011, 690, 10-25.	2.6	127
13	Development of a one-step immunochromatographic strip test using gold nanoparticles for the rapid detection of <i>Salmonella typhi</i> in human serum. <i>Biosensors and Bioelectronics</i> , 2012, 31, 562-566.	5.3	96
14	A microfluidic paper-based analytical device for rapid quantification of particulate chromium. <i>Analytica Chimica Acta</i> , 2013, 800, 50-55.	2.6	95
15	Sodium dodecyl sulfate-modified electrochemical paper-based analytical device for determination of dopamine levels in biological samples. <i>Analytica Chimica Acta</i> , 2012, 744, 1-7.	2.6	94
16	Highly sensitive colorimetric detection of lead using maleic acid functionalized gold nanoparticles. <i>Talanta</i> , 2015, 132, 613-618.	2.9	83
17	Development of a sensitive micro-magnetic chemiluminescence enzyme immunoassay for the determination of carcinoembryonic antigen. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1965-1971.	1.9	63
18	Determination of trace heavy Metals by Sequential Injection-anodic Stripping Voltammetry using Bismuth Film Screen-printed Carbon Electrode. <i>Analytical Sciences</i> , 2008, 24, 589-594.	0.8	62

#	ARTICLE	IF	CITATIONS
19	Selective determination of homocysteine levels in human plasma using a silver nanoparticle-based colorimetric assay. <i>Talanta</i> , 2011, 85, 870-876.	2.9	60
20	Determination of aerosol oxidative activity using silver nanoparticle aggregation on paper-based analytical devices. <i>Analyst</i> , The, 2013, 138, 6766.	1.7	59
21	Graphene-carbon paste electrode for cadmium and lead ion monitoring in a flow-based system. <i>Talanta</i> , 2012, 100, 282-289.	2.9	53
22	A distance-based paper sensor for the determination of chloride ions using silver nanoparticles. <i>Analyst</i> , The, 2018, 143, 3867-3873.	1.7	52
23	Poly(dimethylsiloxane) cross-linked carbon paste electrodes for microfluidic electrochemical sensing. <i>Analyst</i> , The, 2011, 136, 3177.	1.7	46
24	On-line preconcentration and determination of lead and cadmium by sequential injection/anodic stripping voltammetry. <i>Talanta</i> , 2012, 96, 75-81.	2.9	43
25	Sensitive distance-based paper-based quantification of mercury ions using carbon nanodots and heating-based preconcentration. <i>RSC Advances</i> , 2020, 10, 9884-9893.	1.7	32
26	Rapid separation and highly sensitive detection methodology for sulfonamides in shrimp using a monolithic column coupled with BDD amperometric detection. <i>Talanta</i> , 2009, 79, 1036-1041.	2.9	28
27	Dual Sample Preconcentration for Simultaneous Quantification of Metal Ions Using Electrochemical and Colorimetric Assays. <i>ACS Sensors</i> , 2020, 5, 3999-4008.	4.0	27
28	Highly sensitive, selective and naked-eye detection of bromide and bromate using distance-based paper analytical device. <i>Talanta</i> , 2021, 221, 121590.	2.9	24
29	Disposable Nonenzymatic Uric Acid and Creatinine Sensors Using <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mrow><mml:mi>1/4</mml:mi></mml:mrow></mml:math> PAD Coupled with Screen-Printed Reduced Graphene Oxide-Gold Nanocomposites. <i>International Journal of Analytical Chemistry</i> , 2019, 2019, 1-11.	0.4	23
30	Paper-based Analytical Device (PAD) for the Determination of Borax, Salicylic Acid, Nitrite, and Nitrate by Colorimetric Methods. <i>Journal of Analytical Chemistry</i> , 2020, 75, 487-494.	0.4	21
31	Highly Sensitive Determination of Cadmium and Lead Using a Low-cost Electrochemical Flow-through Cell Based on a Carbon Paste Electrode. <i>Analytical Sciences</i> , 2012, 28, 141.	0.8	20
32	A fluorometric paper-based sensor array for the discrimination of volatile organic compounds (VOCs) with novel salicylidene derivatives. <i>Dyes and Pigments</i> , 2018, 159, 378-383.	2.0	20
33	Development of an ultrasound-enhanced smartphone colorimetric biosensor for ultrasensitive hydrogen peroxide detection and its applications. <i>RSC Advances</i> , 2020, 10, 24463-24471.	1.7	20
34	Distance-Based Paper Device for a Naked-Eye Albumin-to-Alkaline Phosphatase Ratio Assay. <i>ACS Sensors</i> , 2021, 6, 3047-3055.	4.0	19
35	Rapid Distance-Based Cardiac Troponin Quantification Using Paper Analytical Devices for the Screening and the Follow-Up of Acute Myocardial Infarction, Using a Single Drop of Human Whole Blood. <i>ACS Sensors</i> , 2021, 6, 1339-1347.	4.0	18
36	A Simple Paper-based Colorimetric Device for Rapid and Sensitive Urinary Oxalate Determinations. <i>Analytical Sciences</i> , 2018, 34, 103-108.	0.8	17

#	ARTICLE	IF	CITATIONS
37	Highly sensitive distance-based liquid crystalline visualization for paper-based analytical devices. <i>Analytica Chimica Acta</i> , 2021, 1154, 338328.	2.6	17
38	A paper-based conductive immunosensor for the determination of <i>Salmonella Typhimurium</i> . <i>Analyst, The</i> , 2020, 145, 4637-4645.	1.7	16
39	Distance-Based Paper Device Combined with Headspace Extraction for Determination of Cyanide. <i>Sensors</i> , 2019, 19, 2340.	2.1	13
40	Development of a fluorescent distance-based paper device using loop-mediated isothermal amplification to detect <i>Escherichia coli</i> in urine. <i>Analyst, The</i> , 2020, 145, 8077-8086.	1.7	13
41	A rapid and highly sensitive paper-based colorimetric device for the on-site screening of ammonia gas. <i>Analyst, The</i> , 2021, 146, 2919-2927.	1.7	10
42	Distance-based β -amyloid protein detection on PADs for the scanning and subsequent follow-up of Alzheimer's disease in human urine samples. <i>Analyst, The</i> , 2022, 147, 695-703.	1.7	9
43	An Oxalic Acid Sensor Based on Platinum/Carbon Black-Nickel-Reduced Graphene Oxide Nanocomposites Modified Screen-Printed Carbon Electrode. <i>Journal of Electrochemical Science and Technology</i> , 2019, 10, 416-423.	0.9	8
44	A Simple Counting-Based Measurement for Paper Analytical Devices and Their Application. <i>ACS Sensors</i> , 2022, 7, 2093-2101.	4.0	8
45	A Portable Reflective Absorbance Spectrophotometric Smartphone Device for the Rapid and Highly Accurate Determination of Amlodipine in Pharmaceutical Formulation and Human Urine Samples. <i>Analytical Sciences</i> , 2021, 37, 963-969.	0.8	6
46	Cotton fiber-based assay with time-based microfluidic absorption sampling for point-of-care applications. <i>Bioanalysis</i> , 2019, 11, 855-873.	0.6	2
47	Metallic Film Modified Screen-Printed Carbon Electrode for Determination of 17β -Methyltestosterone. <i>Key Engineering Materials</i> , 0, 824, 182-189.	0.4	2
48	House Microwave-Assisted Solid Phase Extraction for Residual 17β -Methyltestosterone Determination in Nile Tilapia Tissues by High-Performance Liquid Chromatography. <i>Solvent Extraction Research and Development</i> , 2021, 28, 149-156.	0.5	2
49	Blood separation on microfluidic paper-based analytical devices. , 0, .		1