

Chien-Fu Chen

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

1,372
citations

19
h-index

36
g-index

48
ext. papers

1,618
ext. citations

7.5
avg, IF

4.7
L-index

#	Paper	IF	Citations
46	Detection of mercury(II) ions using colorimetric gold nanoparticles on paper-based analytical devices. <i>Analytical Chemistry</i> , 2014 , 86, 6843-9	7.8	387
45	Polymer microchips integrating solid-phase extraction and high-performance liquid chromatography using reversed-phase polymethacrylate monoliths. <i>Analytical Chemistry</i> , 2009 , 81, 2545-54	7.8	98
44	Diagnosis of Tuberculosis Using Colorimetric Gold Nanoparticles on a Paper-Based Analytical Device. <i>ACS Sensors</i> , 2017 , 2, 1345-1354	9.2	90
43	Paper-based tuberculosis diagnostic devices with colorimetric gold nanoparticles. <i>Science and Technology of Advanced Materials</i> , 2013 , 14, 044404	7.1	74
42	Covalently functionalized double-walled carbon nanotubes combine high sensitivity and selectivity in the electrical detection of small molecules. <i>Journal of the American Chemical Society</i> , 2013 , 135, 2306-12	16.4	60
41	Size-tunable copper nanocluster aggregates and their application in hydrogen sulfide sensing on paper-based devices. <i>Scientific Reports</i> , 2016 , 6, 24882	4.9	58
40	Signal Amplified Gold Nanoparticles for Cancer Diagnosis on Paper-Based Analytical Devices. <i>ACS Sensors</i> , 2018 , 3, 174-182	9.2	55
39	Antibacterial cellulose paper made with silver-coated gold nanoparticles. <i>Scientific Reports</i> , 2017 , 7, 3155-9	5.9	46
38	Development a stacking pad design for enhancing the sensitivity of lateral flow immunoassay. <i>Scientific Reports</i> , 2018 , 8, 17319	4.9	41
37	Three-dimensional origami paper-based device for portable immunoassay applications. <i>Lab on A Chip</i> , 2019 , 19, 598-607	7.2	40
36	High-pressure on-chip mechanical valves for thermoplastic microfluidic devices. <i>Lab on A Chip</i> , 2009 , 9, 3511-6	7.2	34
35	Optical and Electrical Properties of Inner Tubes in Outer Wall-Selectively Functionalized Double-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 1577-1582	6.4	30
34	Fast analysis of ketamine using a colorimetric immunosorbent assay on a paper-based analytical device. <i>Sensors and Actuators B: Chemical</i> , 2019 , 282, 251-258	8.5	29
33	Flow-through immunosensors using antibody-immobilized polymer monoliths. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 182-8	11.8	28
32	Blood Plasma Separation Using a Fidget-Spinner. <i>Analytical Chemistry</i> , 2019 , 91, 1247-1253	7.8	28
31	Mixed-mode electrokinetic and chromatographic peptide separations in a microvalve-integrated polymer chip. <i>Lab on A Chip</i> , 2010 , 10, 2122-9	7.2	23
30	Surface-modified cellulose paper and its application in infectious disease diagnosis. <i>Sensors and Actuators B: Chemical</i> , 2018 , 265, 506-513	8.5	22

29	A fluorometric paper test for chromium(VI) based on the use of N-doped carbon dots. <i>Mikrochimica Acta</i> , 2019 , 186, 227	5.8	20
28	Interfacing microfluidics to LDI-MS by automatic robotic spotting. <i>Microfluidics and Nanofluidics</i> , 2010 , 8, 777-787	2.8	19
27	Rapid and inexpensive blood typing on thermoplastic chips. <i>Lab on A Chip</i> , 2015 , 15, 4533-41	7.2	17
26	Determination of Gold Ions in Human Urine Using Genetically Engineered Microorganisms on a Paper Device. <i>ACS Sensors</i> , 2018 , 3, 744-748	9.2	16
25	Chemical Gating of a Synthetic Tube-in-a-Tube Semiconductor. <i>Journal of the American Chemical Society</i> , 2017 , 139, 3045-3051	16.4	15
24	Microscale patterning of thermoplastic polymer surfaces by selective solvent swelling. <i>Langmuir</i> , 2012 , 28, 12923-9	4	15
23	Fluorescent Double-Stranded DNA-Templated Copper Nanoprobes for Rapid Diagnosis of Tuberculosis. <i>ACS Sensors</i> , 2019 , 4, 2885-2892	9.2	13
22	Development of a multiplex and sensitive lateral flow immunoassay for the diagnosis of periprosthetic joint infection. <i>Scientific Reports</i> , 2019 , 9, 15679	4.9	13
21	Biosensors for the Determination of SARS-CoV-2 Virus and Diagnosis of COVID-19 Infection.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	12
20	Graphene as a functional layer for semiconducting carbon nanotube transistor sensors. <i>Carbon</i> , 2017 , 125, 49-55	10.4	11
19	An electricity- and instrument-free infectious disease sensor based on a 3D origami paper-based analytical device. <i>Lab on A Chip</i> , 2021 , 21, 1908-1915	7.2	11
18	Selective breakdown of metallic pathways in double-walled carbon nanotube networks. <i>Small</i> , 2015 , 11, 96-102	11	9
17	Accelerated colorimetric immunosensing using surface-modified porous monoliths and gold nanoparticles. <i>Science and Technology of Advanced Materials</i> , 2013 , 14, 044403	7.1	6
16	A Multifunctional Microfluidic Device for Blood Typing and Primary Screening of Blood Diseases. <i>ACS Sensors</i> , 2020 , 5, 3082-3090	9.2	6
15	DNA-Templated Copper Nanoprobes: Overview, Feature, Application, and Current Development in Detection Technologies. <i>Chemical Record</i> , 2020 , 20, 174-186	6.6	5
14	A manual and portable centrifuge combined with a paper-based immunoassay for myocardial infarction diagnosis. <i>Chemical Engineering Journal</i> , 2021 , 409, 128131	14.7	5
13	The detection of Mercury(II) ions using fluorescent gold nanoclusters on a portable paper-based device. <i>Chemical Engineering Journal</i> , 2021 , 430, 133070	14.7	4
12	Simultaneous Determination of L-Phenylalanine, Phenylethylamine, and Phenylacetic Acid Using Three-Color Whole-Cell Biosensors within a Microchannel Device.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 5120-5125	4.1	4

11	In-Vitro Diagnostic Devices 2016 ,		3
10	Formation of drops and rings in double-diffusive sedimentation. <i>Journal of Fluid Mechanics</i> , 2020 , 884,	3-7	3
9	Feasibility Study of Dielectric Barrier Discharge Jet-Patterned Perfluorodecyltrichlorosilane-Coated Paper for Biochemical Diagnosis. <i>ECS Journal of Solid State Science and Technology</i> , 2021 , 10, 037005	2	3
8	Paper-based analytical devices for point-of-care blood tests. <i>Biomicrofluidics</i> , 2021 , 15, 041303	3-2	3
7	Low-cost In Vitro Diagnostic Technologies 2016 , 59-91		2
6	Hand-Powered Microfluidics for Parallel Droplet Digital Loop-Mediated Isothermal Amplification Assays. <i>ACS Sensors</i> , 2021 , 6, 2868-2874	9-2	2
5	A systematic review on advances in diagnostics for herpes simplex keratitis. <i>Survey of Ophthalmology</i> , 2021 , 66, 514-530	6.1	2
4	Polymeric-Based In Vitro Diagnostic Devices 2016 , 15-58		1
3	A power-free liquid driven method for micro mixing application		1
2	Silver mirror reaction metallized chromatography paper for supercapacitor application. <i>Flexible and Printed Electronics</i> , 2021 , 6, 045010	3.1	1
1	Detection of pathogens using graphene quantum dots and gold nanoclusters on paper-based analytical devices. <i>Sensors and Actuators B: Chemical</i> , 2022 , 363, 131824	8.5	1