Zhi-Yong Wu

List of Publications by Year
in descending order

33 papers	586 citations	567281 15 h-index	642732 23 g-index
33 all docs	33 docs citations	33 times ranked	506 citing authors

#	Article	IF	Citations
1	Sensitive paper-based analytical device for fast colorimetric detection of nitrite with smartphone. Analytical and Bioanalytical Chemistry, 2018, 410, 2665-2669.	3.7	51
2	Highly efficient sample stacking by enhanced field amplification on a simple paper device. Lab on A Chip, 2016, 16, 3460-3465.	6.0	42
3	Simultaneous electrokinetic concentration and separation of proteins on a paper-based analytical device. RSC Advances, 2017, 7, 4011-4016.	3.6	37
4	Colorimetric speciation of Cr on paper-based analytical devices based on field amplified stacking. Talanta, 2020, 210, 120635.	5.5	33
5	Performance of electrokinetic stacking enhanced paper-based analytical device with smartphone for fast detection of fluorescent whitening agent. Analytica Chimica Acta, 2017, 995, 85-90.	5.4	30
6	Two orders of magnitude electrokinetic stacking of proteins in one minute on a simple paper fluidic channel. Analytical Methods, 2017, 9, 2703-2709.	2.7	29
7	Simultaneous pre-concentration and separation on simple paper-based analytical device for protein analysis. Analytical and Bioanalytical Chemistry, 2018, 410, 1689-1695.	3.7	28
8	Electrokinetic stacking on paper-based analytical device by ion concentration polarization with ion exchange membrane interface. Microfluidics and Nanofluidics, 2018, 22, 1.	2.2	27
9	Novel field amplification for sensitive colorimetric detection of microalbuminuria on a paper-based analytical device. Analytica Chimica Acta, 2019, 1080, 146-152.	5.4	27
10	Sensitive colorimetric detection of Cu2+ by simultaneous reaction and electrokinetic stacking on a paper-based analytical device. Microchemical Journal, 2018, 139, 357-362.	4.5	26
11	Simultaneous electrochemical detection of levodapa, paracetamol and <scp>l</scp>-tyrosine based on multi-walled carbon nanotubes. RSC Advances, 2020, 10, 14218-14224.	3.6	26
12	Fast and sensitive screening detection of tetracyclines with a paper-based analytical device. Microchemical Journal, 2019, 145, 703-707.	4.5	22
13	Detection of urine protein by a paper-based analytical device enhanced with ion concentration polarization effect. Microfluidics and Nanofluidics, 2019, 23, 1.	2.2	21
14	Simultaneous electrokinetic stacking and separation of anionic and cationic species on a paper fluidic channel. Lab on A Chip, 2019, 19, 845-850.	6.0	19
15	Online sample clean-up and enrichment of proteins from salty media with dynamic double gradients on a paper fluidic channel. Analytica Chimica Acta, 2020, 1100, 149-155.	5.4	18
16	Carrier ampholyteâ€free isoelectric focusing on a paperâ€based analytical device for the fractionation of proteins. Journal of Separation Science, 2018, 41, 2085-2091.	2.5	15
17	Flexible and Efficient Eletrokinetic Stacking of DNA and Proteins at an HF Etched Porous Junction on a Fused Silica Capillary. Analytical Chemistry, 2012, 84, 7085-7091.	6.5	14
18	Salty Biofluidic Sample Clean-Up and Preconcentration with a Paper-Based Ion Concentration Polarization Interface. Analytical Chemistry, 2021, 93, 10236-10242.	6.5	14

#	Article	IF	Citations
19	Microfabrication-free fused silica nanofluidic interface for on chip electrokinetic stacking of DNA. Microfluidics and Nanofluidics, 2013, 14, 69-76.	2.2	11
20	A Numerical Research of Herringbone Passive Mixer at Low Reynold Number Regime. Micromachines, 2017, 8, 325.	2.9	11
21	Exploring the interaction of G-quadruplex and porphyrin derivative by single protein nanopore sensing interface. Analytica Chimica Acta, 2020, 1106, 126-132.	5.4	10
22	Electrokinetic stacking of electrically neutral analytes with paper-based analytical device. Talanta, 2018, 182, 247-252.	5.5	9
23	A field amplification enhanced paper-based analytical device with a robust chemiluminescence detection module. Analyst, The, 2019, 144, 498-503.	3.5	9
24	Sensitive colorimetric detection of Pb2+ by geometric field amplification and surface plasmon resonance visualization. Talanta, 2020, 212, 120749.	5.5	9
25	Hydrodynamic and electrodynamic flow mixing in a novel total glass chip mixer with streamline herringbone pattern. Microfluidics and Nanofluidics, 2015, 18, 887-895.	2.2	8
26	Improvement of Porous Electro-conductive Membrane Preparation and Its Application in Sample Injection Pre-concentration in the Capillary Electrophoresis of Proteins. Chinese Journal of Analytical Chemistry, 2008, 36, 879-884.	1.7	7
27	Fast and sensitive colorimetric detection of pigments from beverages by gradient zone electrophoresis on a paper based analytical device. Microchemical Journal, 2022, 179, 107499.	4.5	7
28	Simultaneous enrichment and separation based on ion concentration polarization effect on a paper based analytical device. Analytica Chimica Acta, 2022, 1208, 339844.	5.4	6
29	Cr speciation analysis based on electrokinetic sample pretreatment with a paper based analytical device. Talanta, 2021, 234, 122656.	5.5	5
30	Investigation of hairpin DNA and chelerythrine interaction by a single bio-nanopore sensing interface. Analyst, The, 2019, 144, 4081-4085.	3.5	4
31	Fast and highly efficient multiplexed electrokinetic stacking on a paper-based analytical device. Microchemical Journal, 2022, 174, 107041.	4.5	4
32	Current pulse signature of native kanamycin aptamer and its implication for molecular interactions on a single protein nanopore sensing interface. Biosensors and Bioelectronics, 2022, 201, 113966.	10.1	4
33	Making of a single solid-state nanopore on the wall of fused silica capillary. Royal Society Open Science, 2018, 5, 171633.	2.4	3