

# Zhi-Yong Wu

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Fast and highly efficient multiplexed electrokinetic stacking on a paper-based analytical device. <i>Microchemical Journal</i> , 2022, 174, 107041.	4.5	4
2	Current pulse signature of native kanamycin aptamer and its implication for molecular interactions on a single protein nanopore sensing interface. <i>Biosensors and Bioelectronics</i> , 2022, 201, 113966.	10.1	4
3	Fast and sensitive colorimetric detection of pigments from beverages by gradient zone electrophoresis on a paper based analytical device. <i>Microchemical Journal</i> , 2022, 179, 107499.	4.5	7
4	Simultaneous enrichment and separation based on ion concentration polarization effect on a paper based analytical device. <i>Analytica Chimica Acta</i> , 2022, 1208, 339844.	5.4	6
5	Salty Biofluidic Sample Clean-Up and Preconcentration with a Paper-Based Ion Concentration Polarization Interface. <i>Analytical Chemistry</i> , 2021, 93, 10236-10242.	6.5	14
6	Cr speciation analysis based on electrokinetic sample pretreatment with a paper based analytical device. <i>Talanta</i> , 2021, 234, 122656.	5.5	5
7	Colorimetric speciation of Cr on paper-based analytical devices based on field amplified stacking. <i>Talanta</i> , 2020, 210, 120635.	5.5	33
8	Online sample clean-up and enrichment of proteins from salty media with dynamic double gradients on a paper fluidic channel. <i>Analytica Chimica Acta</i> , 2020, 1100, 149-155.	5.4	18
9	Sensitive colorimetric detection of Pb <sup>2+</sup> by geometric field amplification and surface plasmon resonance visualization. <i>Talanta</i> , 2020, 212, 120749.	5.5	9
10	Exploring the interaction of G-quadruplex and porphyrin derivative by single protein nanopore sensing interface. <i>Analytica Chimica Acta</i> , 2020, 1106, 126-132.	5.4	10
11	Simultaneous electrochemical detection of levodopa, paracetamol and L-tyrosine based on multi-walled carbon nanotubes. <i>RSC Advances</i> , 2020, 10, 14218-14224.	3.6	26
12	Novel field amplification for sensitive colorimetric detection of microalbuminuria on a paper-based analytical device. <i>Analytica Chimica Acta</i> , 2019, 1080, 146-152.	5.4	27
13	Simultaneous electrokinetic stacking and separation of anionic and cationic species on a paper fluidic channel. <i>Lab on A Chip</i> , 2019, 19, 845-850.	6.0	19
14	A field amplification enhanced paper-based analytical device with a robust chemiluminescence detection module. <i>Analyst</i> , 2019, 144, 498-503.	3.5	9
15	Investigation of hairpin DNA and chelerythrine interaction by a single bio-nanopore sensing interface. <i>Analyst</i> , 2019, 144, 4081-4085.	3.5	4
16	Detection of urine protein by a paper-based analytical device enhanced with ion concentration polarization effect. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	2.2	21
17	Fast and sensitive screening detection of tetracyclines with a paper-based analytical device. <i>Microchemical Journal</i> , 2019, 145, 703-707.	4.5	22
18	Electrokinetic stacking of electrically neutral analytes with paper-based analytical device. <i>Talanta</i> , 2018, 182, 247-252.	5.5	9

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19	Electrokinetic stacking on paper-based analytical device by ion concentration polarization with ion exchange membrane interface. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.	2.2	27
20	Carrier ampholyte-free isoelectric focusing on a paper-based analytical device for the fractionation of proteins. <i>Journal of Separation Science</i> , 2018, 41, 2085-2091.	2.5	15
21	Simultaneous pre-concentration and separation on simple paper-based analytical device for protein analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 1689-1695.	3.7	28
22	Sensitive colorimetric detection of Cu <sup>2+</sup> by simultaneous reaction and electrokinetic stacking on a paper-based analytical device. <i>Microchemical Journal</i> , 2018, 139, 357-362.	4.5	26
23	Sensitive paper-based analytical device for fast colorimetric detection of nitrite with smartphone. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 2665-2669.	3.7	51
24	Making of a single solid-state nanopore on the wall of fused silica capillary. <i>Royal Society Open Science</i> , 2018, 5, 171633.	2.4	3
25	Simultaneous electrokinetic concentration and separation of proteins on a paper-based analytical device. <i>RSC Advances</i> , 2017, 7, 4011-4016.	3.6	37
26	Two orders of magnitude electrokinetic stacking of proteins in one minute on a simple paper fluidic channel. <i>Analytical Methods</i> , 2017, 9, 2703-2709.	2.7	29
27	Performance of electrokinetic stacking enhanced paper-based analytical device with smartphone for fast detection of fluorescent whitening agent. <i>Analytica Chimica Acta</i> , 2017, 995, 85-90.	5.4	30
28	A Numerical Research of Herringbone Passive Mixer at Low Reynold Number Regime. <i>Micromachines</i> , 2017, 8, 325.	2.9	11
29	Highly efficient sample stacking by enhanced field amplification on a simple paper device. <i>Lab on A Chip</i> , 2016, 16, 3460-3465.	6.0	42
30	Hydrodynamic and electrodynamic flow mixing in a novel total glass chip mixer with streamline herringbone pattern. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 887-895.	2.2	8
31	Microfabrication-free fused silica nanofluidic interface for on chip electrokinetic stacking of DNA. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 69-76.	2.2	11
32	Flexible and Efficient Eletrokinetic Stacking of DNA and Proteins at an HF Etched Porous Junction on a Fused Silica Capillary. <i>Analytical Chemistry</i> , 2012, 84, 7085-7091.	6.5	14
33	Improvement of Porous Electro-conductive Membrane Preparation and Its Application in Sample Injection Pre-concentration in the Capillary Electrophoresis of Proteins. <i>Chinese Journal of Analytical Chemistry</i> , 2008, 36, 879-884.	1.7	7