

Abeba B Jemere

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

574
citations

687363

13
h-index

642732

23
g-index

23
all docs

23
docs citations

23
times ranked

704
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Design of an interface to allow microfluidic electrophoresis chips to drink from the fire hose of the external environment. <i>Electrophoresis</i> , 2001, 22, 318-327. | 2.4 | 101 |
| 2 | Microchip-based capillary electrochromatography using packed beds. <i>Electrophoresis</i> , 2003, 24, 3018-3025. | 2.4 | 55 |
| 3 | An impedimetric biosensor for E. coli O157:H7 based on the use of self-assembled gold nanoparticles and protein C. <i>Mikrochimica Acta</i> , 2019, 186, 169. | 5.0 | 54 |
| 4 | A regenerating ultrasensitive electrochemical impedance immunosensor for the detection of adenovirus. <i>Biosensors and Bioelectronics</i> , 2015, 68, 129-134. | 10.1 | 47 |
| 5 | Nanostructured nickel oxide electrodes for non-enzymatic electrochemical glucose sensing. <i>Mikrochimica Acta</i> , 2020, 187, 196. | 5.0 | 44 |
| 6 | Multifunctional protein processing chip with integrated digestion, solid-phase extraction, separation and electrospray. <i>Electrophoresis</i> , 2010, 31, 3703-3710. | 2.4 | 33 |
| 7 | Nanostructured indium tin oxide electrodes immobilized with toll-like receptor proteins for label-free electrochemical detection of pathogen markers. <i>Sensors and Actuators B: Chemical</i> , 2018, 257, 324-330. | 7.8 | 27 |
| 8 | On-chip solid phase extraction and enzyme digestion using cationic PolyE-323 coatings and porous polymer monoliths coupled to electrospray mass spectrometry. <i>Journal of Chromatography A</i> , 2011, 1218, 4039-4044. | 3.7 | 26 |
| 9 | A regenerating self-assembled gold nanoparticle-containing electrochemical impedance sensor. <i>Biosensors and Bioelectronics</i> , 2014, 56, 328-333. | 10.1 | 24 |
| 10 | Microchannels filled with diverse micro- and nanostructures fabricated by glancing angle deposition. <i>Lab on A Chip</i> , 2011, 11, 1671. | 6.0 | 20 |
| 11 | Capillary electrochromatography with packed bead beds in microfluidic devices. <i>Electrophoresis</i> , 2009, 30, 4237-4244. | 2.4 | 19 |
| 12 | Multiplexed electrokinetic sample fractionation, preconcentration and elution for proteomics. <i>Lab on A Chip</i> , 2013, 13, 2651. | 6.0 | 15 |
| 13 | Electrochemical Determination of Naloxone Using Molecularly Imprinted Poly(para-phenylenediamine) Sensor. <i>Journal of the Electrochemical Society</i> , 2020, 167, 137508. | 2.9 | 15 |
| 14 | Tunable thick polymer coatings for on-chip electrophoretic protein and peptide separation. <i>Journal of Chromatography A</i> , 2012, 1241, 112-116. | 3.7 | 13 |
| 15 | Investigation of Capillary Filling Dynamics of Multicomponent Fluids in Straight and Periodically Constricted Microchannels. <i>Langmuir</i> , 2020, 36, 6304-6313. | 3.5 | 12 |
| 16 | A Molecularly Imprinted Sol-Gel Electrochemical Sensor for Naloxone Determination. <i>Nanomaterials</i> , 2021, 11, 631. | 4.1 | 12 |
| 17 | Matrix-free laser desorption/ionization mass spectrometry using silicon glancing angle deposition (GLAD) films. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 2305-2311. | 1.5 | 11 |
| 18 | Size-based proteins separation using polymer-entrapped colloidal self-assembled nanoparticles on a chip. <i>Electrophoresis</i> , 2016, 37, 2602-2609. | 2.4 | 10 |

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| 19 | Engineering matrix-free laser desorption ionization mass spectrometry using glancing angle deposition films. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 631-638. | 1.5 | 10 |
| 20 | Microfluidic devices for electrokinetic sample fractionation. <i>Electrophoresis</i> , 2010, 31, 2575-2583. | 2.4 | 8 |
| 21 | Evaluation of protein separation mechanism and pore size distribution in colloidal self-assembled nanoparticle sieves for on-chip protein sizing. <i>Electrophoresis</i> , 2017, 38, 342-349. | 2.4 | 8 |
| 22 | Integrated electrokinetic sample fractionation and solid-phase extraction in microfluidic devices. <i>Electrophoresis</i> , 2012, 33, 3151-3158. | 2.4 | 7 |
| 23 | Amperometric Determination of Xanthine Using Nanostructured NiO Electrodes Loaded with Xanthine Oxidase. <i>ACS Food Science & Technology</i> , 2022, 2, 1307-1317. | 2.7 | 3 |