

InÃs F Pinto

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

443
citations

686830

13
h-index

713013

21
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25
all docs

25
docs citations

25
times ranked

510
citing authors

#	ARTICLE	IF	CITATIONS
1	Sample-to-answer COVID-19 nucleic acid testing using a low-cost centrifugal microfluidic platform with bead-based signal enhancement and smartphone read-out. <i>Lab on A Chip</i> , 2021, 21, 2932-2944.	3.1	47
2	The application of microbeads to microfluidic systems for enhanced detection and purification of biomolecules. <i>Methods</i> , 2017, 116, 112-124.	1.9	45
3	Multimodal chromatography: debottlenecking the downstream processing of monoclonal antibodies. <i>Pharmaceutical Bioprocessing</i> , 2015, 3, 263-279.	0.8	39
4	Multiplexed microfluidic fluorescence immunoassay with photodiode array signal acquisition for sub-minute and point-of-need detection of mycotoxins. <i>Lab on A Chip</i> , 2018, 18, 1569-1580.	3.1	37
5	Silica bead-based microfluidic device with integrated photodiodes for the rapid capture and detection of rolling circle amplification products in the femtomolar range. <i>Biosensors and Bioelectronics</i> , 2019, 128, 68-75.	5.3	33
6	High-Throughput Nanoliter-Scale Analysis and Optimization of Multimodal Chromatography for the Capture of Monoclonal Antibodies. <i>Analytical Chemistry</i> , 2016, 88, 7959-7967.	3.2	32
7	Sub-attomole detection of HIV-1 using padlock probes and rolling circle amplification combined with microfluidic affinity chromatography. <i>Biosensors and Bioelectronics</i> , 2020, 166, 112442.	5.3	25
8	Flex Printed Circuit Board Implemented Graphene-Based DNA Sensor for Detection of SARS-CoV-2. <i>IEEE Sensors Journal</i> , 2021, 21, 13060-13067.	2.4	25
9	Capillary-driven microfluidic device with integrated nanoporous microbeads for ultrarapid biosensing assays. <i>Sensors and Actuators B: Chemical</i> , 2018, 265, 452-458.	4.0	22
10	A regenerable microfluidic device with integrated valves and thin-film photodiodes for rapid optimization of chromatography conditions. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 3636-3646.	4.0	22
11	Studies on the purification of antibody fragments. <i>Separation and Purification Technology</i> , 2018, 195, 388-397.	3.9	19
12	Development of a rapid bead-based microfluidic platform for DNA hybridization using single- and multi-mode interactions for probe immobilization. <i>Sensors and Actuators B: Chemical</i> , 2019, 286, 328-336.	4.0	17
13	Label-Free Detection of Biomolecules in Microfluidic Systems Using On-Chip UV and Impedimetric Sensors. <i>IEEE Sensors Journal</i> , 2019, 19, 7803-7812.	2.4	13
14	Multiplexed Microfluidic Cartridge for At-Line Protein Monitoring in Mammalian Cell Culture Processes for Biopharmaceutical Production. <i>ACS Sensors</i> , 2021, 6, 842-851.	4.0	12
15	Optical biosensing in microfluidics using nanoporous microbeads and amorphous silicon thin-film photodiodes: quantitative analysis of molecular recognition and signal transduction. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 094004.	1.5	11
16	Exploring the use of heparin as a first capture step in the purification of monoclonal antibodies from cell culture supernatants. <i>Biochemical Engineering Journal</i> , 2015, 104, 27-33.	1.8	9
17	Optimizing the Performance of Chromatographic Separations Using Microfluidics: Multiplexed and Quantitative Screening of Ligands and Target Molecules. <i>Biotechnology Journal</i> , 2019, 14, e1800593.	1.8	7
18	Student Collaboration in a Series of Integrated Experiments To Study Enzyme Reactor Modeling with Immobilized Cell-Based Invertase. <i>Journal of Chemical Education</i> , 2015, 92, 1238-1243.	1.1	6

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19	Point-of-use Ultrafast Single-step Detection of Food Contaminants: A Novel Microfluidic Fluorescence-based Immunoassay with Integrated Photodetection. <i>Procedia Engineering</i> , 2016, 168, 329-332.	1.2	6
20	Knowing more from less: miniaturization of ligand-binding assays and electrophoresis as new paradigms for at-line monitoring and control of mammalian cell bioprocesses. <i>Current Opinion in Biotechnology</i> , 2021, 71, 55-64.	3.3	5
21	Microfluidics as a high-throughput solution for chromatographic process development – The complexity of multimodal chromatography used as a proof of concept. <i>Journal of Chromatography A</i> , 2021, 1658, 462618.	1.8	4
22	Integration of Photosensors in a Nano-liter Scale Chromatography Column for the Online Monitoring of Adsorption/Desorption Kinetics of a Fluorophore-labeled Monoclonal Antibody. <i>Procedia Engineering</i> , 2016, 168, 1426-1429.	1.2	2
23	Multiplexed microfluidic platform coupled with photodetector array for point-of-need and sub-minute detection of food contaminants. , 2018, , .		0
24	Quantitative analysis of optical transduction in microfluidic biosensing platforms: Nanoporous microbeads coupled with thin-film photodiodes. , 2018, , .		0