Marie Frenea-Robin

List of Publications by Year
in descending order

25 papers	397 citations	840728 11 h-index	752679 20 g-index
26 all docs	26 docs citations	26 times ranked	499 citing authors

#	Article	IF	Citations
1	MyDEP: A New Computational Tool for Dielectric Modeling of Particles and Cells. Biophysical Journal, 2019, 116, 12-18.	0.5	57
2	Basic Principles and Recent Advances in Magnetic Cell Separation. Magnetochemistry, 2022, 8, 11.	2.4	39
3	How to improve the sensitivity of coplanar electrodes and micro channel design in electrical impedance flow cytometry: a study. Microfluidics and Nanofluidics, 2019, 23, 1.	2.2	32
4	Selective isolation of bacterial cells within a microfluidic device using magnetic probe-based cell fishing. Sensors and Actuators B: Chemical, 2014, 195, 581-589.	7.8	31
5	Micro-magnet arrays for specific single bacterial cell positioning. Journal of Magnetism and Magnetic Materials, 2015, 380, 72-77.	2.3	30
6	Monitoring the endocytosis of magnetic nanoparticles by cells using permanent micro-flux sources. Biomedical Microdevices, 2012, 14, 947-954.	2.8	29
7	Using injection molding and reversible bonding for easy fabrication of magnetic cell trapping and sorting devices. Journal of Magnetism and Magnetic Materials, 2017, 427, 306-313.	2.3	26
8	nDEP-driven cell patterning and bottom-up construction of cell aggregates using a new bioelectronic chip. Acta Biomaterialia, 2015, 17, 107-114.	8.3	24
9	Dielectrophoresisâ€assisted creation of cell aggregates under flow conditions using planar electrodes. Electrophoresis, 2019, 40, 1498-1509.	2.4	19
10	Simple method for reversible bonding of a polydimethylsiloxane microchannel to a variety of substrates. Micro and Nano Letters, 2011, 6, 871.	1.3	16
11	A reproducible method for Î¼m precision alignment of PDMS microchannels with on-chip electrodes using a mask aligner. Biomicrofluidics, 2017, 11, 064111.	2.4	15
12	Assessment of 0.5ÂT Static Field Exposure Effect on Yeast and HEK Cells Using Electrorotation. Biophysical Journal, 2013, 104, 1805-1811.	0.5	12
13	Magnetic nanoparticle DNA labeling for individual bacterial cell detection and recovery. Journal of Microbiological Methods, 2014, 107, 84-91.	1.6	11
14	Development and applications of a DNA labeling method with magnetic nanoparticles to study the role of horizontal gene transfer events between bacteria in soil pollutant bioremediation processes. Environmental Science and Pollution Research, 2015, 22, 20322-20327.	5.3	11
15	From Bipolar to Quadrupolar Electrode Structures: An Application of Bond-Detach Lithography for Dielectrophoretic Particle Assembly. Langmuir, 2014, 30, 5686-5693.	3.5	7
16	Polyamidoamine Dendrimers as Crosslinkers for Efficient Electron Transfer between Redox Probes onto Magnetic Nanoparticles. ChemistrySelect, 2018, 3, 2823-2829.	1.5	6
17	Dielectrophoretic cell trapping for improved surface plasmon resonance imaging sensing. Electrophoresis, 2019, 40, 1417-1425.	2.4	6
18	Improvements in the extraction of cell electric properties from their electrorotation spectrum. Bioelectrochemistry, 2010, 79, 25-30.	4.6	5

#	Article	IF	Citations
19	Performance improvement of plasmonic sensors using a combination of AC electrokinetic effects for (bio)target capture. Electrophoresis, 2019, 40, 1426-1435.	2.4	5
20	Integrated platform for culture, observation, and parallelized electroporation of spheroids. Lab on A Chip, 2022, 22, 2489-2501.	6.0	5
21	A new magnetic cell fishing approach based on hybridization chain reaction: HCR-MISH. Sensors and Actuators B: Chemical, 2018, 273, 126-132.	7.8	4
22	Electroactive magnetic nanoparticles under magnetic attraction on a microchip electrochemical device. Journal of Magnetism and Magnetic Materials, 2019, 475, 345-351.	2.3	3
23	Eukaryotic Cell Capture by Amplified Magnetic in situ Hybridization Using Yeast as a Model. Frontiers in Microbiology, 2021, 12, 759478.	3.5	2
24	Towards improved finite element modeling of SSAW-based acoustic tweezers. , 2014, , .		0
25	Electromagnetic characterization of biological cells. Revista Brasileira De Engenharia Biomedica, 2011, 27, 61-68.	0.3	0