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Nano-constriction device for rapid protein preconcentration in physiological media through a balance of electrokinetic forces

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#	Paper	IF	Citations
55	Real-time electrochemical monitoring of adenosine triphosphate in the picomolar to micromolar range using graphene-modified electrodes. <i>Analytical Chemistry</i> , 2013 , 85, 8158-65	7.8	215
54	Enhanced penetration of fluoride particles into bovine enamel by combining dielectrophoresis with AC electroosmosis. <i>Electrophoresis</i> , 2013 , 34, 2945-55	3.6	6
53	High-throughput particle manipulation by hydrodynamic, electrokinetic, and dielectrophoretic effects in an integrated microfluidic chip. <i>Biomicrofluidics</i> , 2013 , 7, 24106	3.2	28
52	Protein dielectrophoresis: advances, challenges, and applications. <i>Electrophoresis</i> , 2013 , 34, 1085-96	3.6	101
51	Six-helix bundle and triangle DNA origami insulator-based dielectrophoresis. <i>Analytical Chemistry</i> , 2013 , 85, 11427-34	7.8	24
50	Scaling down constriction-based (electrodeless) dielectrophoresis devices for trapping nanoscale bioparticles in physiological media of high-conductivity. <i>Electrophoresis</i> , 2013 , 34, 1097-104	3.6	54
49	Quantifying spatio-temporal dynamics of biomarker pre-concentration and depletion in microfluidic systems by intensity threshold analysis. <i>Biomicrofluidics</i> , 2014 , 8, 052009	3.2	18
48	Chapter 7: Applications of Dielectrophoresis in Microfluidics. <i>RSC Detection Science</i> , 2014 , 192-223	0.4	5
47	Electrical tweezer for highly parallelized electrorotation measurements over a wide frequency bandwidth. <i>Electrophoresis</i> , 2014 , 35, 1795-802	3.6	26
46	Dielectrophoretic monitoring and interstrain separation of intact <i>Clostridium difficile</i> based on their S(Surface)-layers. <i>Analytical Chemistry</i> , 2014 , 86, 10855-63	7.8	27
45	Fabrication and characterization of sub-100/10 nm planar nanofluidic channels by triple thermal oxidation and silicon-glass anodic bonding. <i>Biomicrofluidics</i> , 2014 , 8, 052106	3.2	9
44	Functionality of dielectrophoretically immobilized enzyme molecules. <i>Electrophoresis</i> , 2014 , 35, 459-66	3.6	14
43	Electrokinetic preconcentration and detection of neuropeptides at patterned graphene-modified electrodes in a nanochannel. <i>Analytical Chemistry</i> , 2014 , 86, 4120-5	7.8	164
42	Quantitative dielectrophoretic tracking for characterization and separation of persistent subpopulations of <i>Cryptosporidium parvum</i> . <i>Analyst, The</i> , 2014 , 139, 66-73	5	53
41	Temporal and spatial temperature measurement in insulator-based dielectrophoretic devices. <i>Analytical Chemistry</i> , 2014 , 86, 6516-24	7.8	29
40	A wide-bandwidth power amplifier for frequency-selective insulator-based dielectrophoresis. <i>Lab on A Chip</i> , 2014 , 14, 4183-7	7.2	20
39	Low-copy number protein detection by electrode nanogap-enabled dielectrophoretic trapping for surface-enhanced Raman spectroscopy and electronic measurements. <i>Nano Letters</i> , 2014 , 14, 2242-50	11.5	36

38	On-chip DNA preconcentration in different media conductivities by electrodeless dielectrophoresis. <i>Biomicrofluidics</i> , 2015 , 9, 054115	3.2	9
37	Development of the resolution theory for gradient insulator-based dielectrophoresis. <i>Electrophoresis</i> , 2015 , 36, 1098-106	3.6	20
36	Insulator-based dielectrophoresis with β -galactosidase in nanostructured devices. <i>Analyst, The</i> , 2015 , 140, 860-8	5	38
35	AC Electrokinetics of Physiological Fluids for Biomedical Applications. <i>Journal of the Association for Laboratory Automation</i> , 2015 , 20, 611-20		27
34	Protein dielectrophoresis and the link to dielectric properties. <i>Bioanalysis</i> , 2015 , 7, 353-71	2.1	18
33	Ultrafast immunoassays by coupling dielectrophoretic biomarker enrichment in nanoslit channel with electrochemical detection on graphene. <i>Lab on A Chip</i> , 2015 , 15, 4563-70	7.2	78
32	Nanomaterial-based electrochemical sensing of neurological drugs and neurotransmitters. <i>Mikrochimica Acta</i> , 2015 , 182, 1-41	5.8	244
31	Dielectrophoretic behavior of PEGylated RNase A inside a microchannel with diamond-shaped insulating posts. <i>Electrophoresis</i> , 2016 , 37, 519-28	3.6	12
30	Polarization behavior of polystyrene particles under direct current and low-frequency (. <i>Electrophoresis</i> , 2016 , 37, 635-44	3.6	13
29	Nanoslit design for ion conductivity gradient enhanced dielectrophoresis for ultrafast biomarker enrichment in physiological media. <i>Biomicrofluidics</i> , 2016 , 10, 033109	3.2	13
28	Aptamer-functionalized nanoparticles for surface immobilization-free electrochemical detection of cortisol in a microfluidic device. <i>Biosensors and Bioelectronics</i> , 2016 , 78, 244-252	11.8	123
27	Influence of geometry and material of insulating posts on particle trapping using positive dielectrophoresis. <i>Journal of Chromatography A</i> , 2017 , 1483, 127-137	4.5	16
26	Alternating current dielectrophoresis of biomacromolecules: The interplay of electrokinetic effects. <i>Sensors and Actuators B: Chemical</i> , 2017 , 252, 391-408	8.5	30
25	Integrated dielectrophoretic and surface plasmonic platform for million-fold improvement in the detection of fluorescent events. <i>Biomicrofluidics</i> , 2017 , 11, 044115	3.2	5
24	Frequency-selective electrokinetic enrichment of biomolecules in physiological media based on electrical double-layer polarization. <i>Nanoscale</i> , 2017 , 9, 12124-12131	7.7	45
23	DC biased low-frequency insulating constriction dielectrophoresis for protein biomolecules concentration. <i>Biofabrication</i> , 2017 , 9, 045003	10.5	8
22	Nanofluidic fluorescence microscopy with integrated concentration gradient generation for one-shot parallel kinetic assays. <i>Sensors and Actuators B: Chemical</i> , 2018 , 274, 338-342	8.5	2
21	On the recent developments of insulator-based dielectrophoresis: A review. <i>Electrophoresis</i> , 2019 , 40, 358-375	3.6	72

20	Ion concentration polarization (ICP) of proteins at silicon micropillar nanogaps. <i>PLoS ONE</i> , 2019 , 14, e0223732	6
19	Low frequency cyclical potentials for fine tuning insulator-based dielectrophoretic separations. <i>Biomicrofluidics</i> , 2019 , 13, 044114	3.2 4
18	Recent advances in direct current electrokinetic manipulation of particles for microfluidic applications. <i>Electrophoresis</i> , 2019 , 40, 2484-2513	3.6 48
17	Combined electrokinetic manipulations of pathogenic bacterial samples in low-cost fabricated dielectrophoretic devices. <i>AIP Advances</i> , 2019 , 9, 115303	1.5 2
16	Charge-Based Separation of Micro- and Nanoparticles. <i>Micromachines</i> , 2020 , 11,	3.3 4
15	Insulator Based Dielectrophoresis: Micro, Nano, and Molecular Scale Biological Applications. <i>Sensors</i> , 2020 , 20,	3.8 8
14	Infrared spectroscopy of live cells from a flowing solution using electrically-biased plasmonic metasurfaces. <i>Lab on A Chip</i> , 2020 , 20, 2136-2153	7.2 10
13	Detection of cell-free DNA nanoparticles in insulator based dielectrophoresis systems. <i>Journal of Chromatography A</i> , 2020 , 1626, 461262	4.5 2
12	Protein Dielectrophoresis: I. Status of Experiments and an Empirical Theory. <i>Micromachines</i> , 2020 , 11,	3.3 16
11	Dielectrophoresis of proteins: experimental data and evolving theory. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 3801-3811	4.4 10
10	A review of dielectrophoretic separation and classification of non-biological particles. <i>Electrophoresis</i> , 2021 , 42, 134-152	3.6 14
9	Review of nonlinear electrokinetic flows in insulator-based dielectrophoresis: From induced charge to Joule heating effects. <i>Electrophoresis</i> , 2021 ,	3.6 3
8	Solvent-mediated forces in protein dielectrophoresis. <i>Electrophoresis</i> , 2021 , 42, 2060-2069	3.6 1
7	Orders-of-Magnitude Larger Force Demonstrated for Dielectrophoresis of Proteins Enabling High-Resolution Separations Based on New Mechanisms. <i>Analytical Chemistry</i> , 2021 , 93, 1352-1359	7.8 3
6	The latest advances on nonlinear insulator-based electrokinetic microsystems under direct current and low-frequency alternating current fields: a review. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 1	4.4 0
5	Encyclopedia of Microfluidics and Nanofluidics. 2013 , 1-9	
4	A Microfluidic Electrochemical Sensor for Detecting the Very Low Concentration Endocrine Disruptor with Self Assembled Monolayer and Preconcentration Technique. <i>Transactions of the Korean Institute of Electrical Engineers</i> , 2016 , 65, 628-634	1.5
3	Emerging on-chip electrokinetic based technologies for purification of circulating cancer biomarkers towards liquid biopsy: A review. <i>Electrophoresis</i> , 2021 , 43, 288	3.6 1

2 Protein Dielectrophoresis: A Tale of Two Clausius-Mossottis-Or Something Else?. *Micromachines*, 2022, 13, 33 3

1 A correlation of conductivity medium and bioparticle viability on dielectrophoresis-based biomedical applications. 0