Christopher J Easley

List of Publications by Year
in descending order

49 papers	2,665 citations	218381 26 h-index	214527 47 g-index
50 all docs	50 docs citations	50 times ranked	3296 citing authors

#	Article	IF	Citations
1	A fully integrated microfluidic genetic analysis system with sample-in-answer-out capability. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19272-19277.	3.3	517
2	Frequency-specific flow control in microfluidic circuits with passive elastomeric features. Nature Physics, 2009, 5, 231-235.	6.5	171
3	Quantitation of Femtomolar Protein Levels via Direct Readout with the Electrochemical Proximity Assay. Journal of the American Chemical Society, 2012, 134, 7066-7072.	6.6	154
4	Isothermal DNA amplification in bioanalysis: strategies and applications. Bioanalysis, 2011, 3, 227-239.	0.6	151
5	Advances in Polymerase Chain Reaction on Microfluidic Chips. Analytical Chemistry, 2005, 77, 3887-3894.	3.2	149
6	Chitosan as a Polymer for pH-Induced DNA Capture in a Totally Aqueous System. Analytical Chemistry, 2006, 78, 7222-7228.	3.2	147
7	A Reusable Electrochemical Proximity Assay for Highly Selective, Real-Time Protein Quantitation in Biological Matrices. Journal of the American Chemical Society, 2014, 136, 8467-8474.	6.6	112
8	Optical Lock-In Detection of FRET Using Synthetic and Genetically Encoded Optical Switches. Biophysical Journal, 2008, 94, 4515-4524.	0.2	99
9	On-chip pressure injection for integration of infrared-mediated DNA amplification with electrophoretic separation. Lab on A Chip, 2006, 6, 601.	3.1	77
10	Infrared Temperature Control System for a Completely Noncontact Polymerase Chain Reaction in Microfluidic Chips. Analytical Chemistry, 2007, 79, 1294-1300.	3.2	76
11	Direct hydrogel encapsulation of pluripotent stem cells enables ontomimetic differentiation and growth of engineered human heart tissues. Biomaterials, 2016, 83, 383-395.	5.7	76
12	A simple and rapid approach for measurement of dissociation constants of DNA aptamers against proteins and small molecules via automated microchip electrophoresis. Analyst, The, 2011, 136, 3461.	1.7	67
13	Quantitative Measurement of Zinc Secretion from Pancreatic Islets with High Temporal Resolution Using Droplet-Based Microfluidics. Analytical Chemistry, 2009, 81, 9086-9095.	3.2	59
14	Lysozyme Dispersed Single-Walled Carbon Nanotubes: Interaction and Activity. Journal of Physical Chemistry C, 2012, 116, 10341-10348.	1.5	56
15	Improvement of Sensitivity and Dynamic Range in Proximity Ligation Assays by Asymmetric Connector Hybridization. Analytical Chemistry, 2010, 82, 6976-6982.	3.2	50
16	3D-templated, fully automated microfluidic input/output multiplexer for endocrine tissue culture and secretion sampling. Lab on A Chip, 2017, 17, 341-349.	3.1	50
17	Passively Operated Microfluidic Device for Stimulation and Secretion Sampling of Single Pancreatic Islets. Analytical Chemistry, 2011, 83, 7166-7172.	3.2	43
18	Glass microfluidic devices with thin membrane voltage junctions for electrospray mass spectrometry. Lab on A Chip, 2005, 5, 619.	3.1	42

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19	Self-Regulated, Droplet-Based Sample Chopper for Microfluidic Absorbance Detection. Analytical Chemistry, 2012, 84, 1510-1516.	3.2	40
20	Extrinsic Fabryâ˘'Perot Interferometry for Noncontact Temperature Control of Nanoliter-Volume Enzymatic Reactions in Glass Microchips. Analytical Chemistry, 2005, 77, 1038-1045.	3.2	36
21	Rapid and inexpensive fabrication of polymeric microfluidic devices via toner transfer masking. Lab on A Chip, 2009, 9, 1119.	3.1	35
22	Creating Biocompatible Oilâ€"Water Interfaces without Synthesis: Direct Interactions between Primary Amines and Carboxylated Perfluorocarbon Surfactants. Analytical Chemistry, 2013, 85, 10556-10564.	3.2	34
23	Macro-to-micro interfacing to microfluidic channels using 3D-printed templates: application to time-resolved secretion sampling of endocrine tissue. Analyst, The, 2016, 141, 5714-5721.	1.7	33
24	A Nucleic Acid Nanostructure Built through On-Electrode Ligation for Electrochemical Detection of a Broad Range of Analytes. Journal of the American Chemical Society, 2019, 141, 11721-11726.	6.6	33
25	A microfluidic interface for the culture and sampling of adiponectin from primary adipocytes. Analyst, The, 2015, 140, 1019-1025.	1.7	31
26	Automated microfluidic droplet sampling with integrated, mix-and-read immunoassays to resolve endocrine tissue secretion dynamics. Lab on A Chip, 2018, 18, 2926-2935.	3.1	31
27	Thermal isolation of microchip reaction chambers for rapid non-contact DNA amplification. Journal of Micromechanics and Microengineering, 2007, 17, 1758-1766.	1.5	28
28	An active microfluidic system packaging technology. Sensors and Actuators B: Chemical, 2007, 122, 337-346.	4.0	26
29	Capillary electrophoresis with laser-induced fluorescence detection for laboratory diagnosis of galactosemia. Journal of Chromatography A, 2003, 1004, 29-37.	1.8	25
30	Measurement of microchannel fluidic resistance with a standard voltage meter. Analytica Chimica Acta, 2013, 758, 101-107.	2.6	24
31	Microfluidic systems for studying dynamic function of adipocytes and adipose tissue. Analytical and Bioanalytical Chemistry, 2018, 410, 791-800.	1.9	24
32	Quantifying aptamerâ€"protein binding via thermofluorimetric analysis. Analytical Methods, 2015, 7, 7358-7362.	1.3	20
33	Automated Microfluidic Droplet-Based Sample Chopper for Detection of Small Fluorescence Differences Using Lock-In Analysis. Analytical Chemistry, 2017, 89, 6153-6159.	3.2	18
34	Rapid lipolytic oscillations in <i>ex vivo</i> adipose tissue explants revealed through microfluidic droplet sampling at high temporal resolution. Lab on A Chip, 2020, 20, 1503-1512.	3.1	18
35	Nucleic-Acid Driven Cooperative Bioassays Using Probe Proximity or Split-Probe Techniques. Analytical Chemistry, 2021, 93, 198-214.	3.2	18
36	Homogeneous Assays of Second Messenger Signaling and Hormone Secretion Using Thermofluorimetric Methods That Minimize Calibration Burden. Analytical Chemistry, 2017, 89, 8517-8523.	3.2	14

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37	Protein Quantification Using Controlled DNA Melting Transitions in Bivalent Probe Assemblies. Analytical Chemistry, 2015, 87, 9576-9579.	3.2	13
38	Understanding Signal and Background in a Thermally Resolved, Single-Branched DNA Assay Using Square Wave Voltammetry. Analytical Chemistry, 2018, 90, 3584-3591.	3.2	12
39	Culture and Sampling of Primary Adipose Tissue in Practical Microfluidic Systems. Methods in Molecular Biology, 2017, 1566, 185-201.	0.4	11
40	Nonfaradaic Current Suppression in DNA-Based Electrochemical Assays with a Differential Potentiostat. Analytical Chemistry, 2019, 91, 15833-15839.	3.2	10
41	Active Flow Control and Dynamic Analysis in Droplet Microfluidics. Annual Review of Analytical Chemistry, 2021, 14, 133-153.	2.8	9
42	Advancement of analytical modes in a multichannel, microfluidic droplet-based sample chopper employing phase-locked detection. Analytical Methods, 2018, 10, 3436-3443.	1.3	8
43	Programmable ÂµChopper Device with On-Chip Droplet Mergers for Continuous Assay Calibration. Micromachines, 2020, 11, 620.	1.4	7
44	Electrochemical Sensing of the Peptide Drug Exendin-4 Using a Versatile Nucleic Acid Nanostructure. ACS Sensors, 2022, 7, 784-789.	4.0	6
45	Rapid DNA Amplification in Glass Microdevices. , 2006, 339, 217-232.		2
46	Microfluidics systems with societal impact in Analytical Methods. Analytical Methods, 2018, 10, 4968-4969.	1.3	1
47	In celebration of the 60th birthday of 2 microfluidics pioneers: Professor Susan Lunte and Professor James Landers. Analytical Methods, 2018, 10, 3433-3435.	1.3	1
48	Tissue Engineering and Analysis in Droplet Microfluidics. RSC Soft Matter, 2020, , 223-260.	0.2	1
49	(Invited) Fast and Generalizable Electrochemical Sensing of Small Molecules, Peptides, and Proteins Using a Nucleic Acid Nanostructure with Analyte-DNA Conjugates. ECS Meeting Abstracts, 2022, MA2022-01, 2233-2233.	0.0	0