

# Christopher J Easley

## List of Publications by Citations

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46  
papers

2,264  
citations

24  
h-index

47  
g-index

50  
ext. papers

2,471  
ext. citations

7  
avg, IF

4.95  
L-index

#	Paper	IF	Citations
46	A fully integrated microfluidic genetic analysis system with sample-in-answer-out capability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 19272-7	11.5	471
45	Frequency-specific flow control in microfluidic circuits with passive elastomeric features. <i>Nature Physics</i> , <b>2009</b> , 5, 231-235	16.2	148
44	Advances in polymerase chain reaction on microfluidic chips. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 3887-93	7.8	140
43	Quantitation of femtomolar protein levels via direct readout with the electrochemical proximity assay. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 7066-72	16.4	135
42	Isothermal DNA amplification in bioanalysis: strategies and applications. <i>Bioanalysis</i> , <b>2011</b> , 3, 227-39	2.1	131
41	Chitosan as a polymer for pH-induced DNA capture in a totally aqueous system. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 7222-8	7.8	125
40	Optical lock-in detection of FRET using synthetic and genetically encoded optical switches. <i>Biophysical Journal</i> , <b>2008</b> , 94, 4515-24	2.9	92
39	A reusable electrochemical proximity assay for highly selective, real-time protein quantitation in biological matrices. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 8467-74	16.4	90
38	On-chip pressure injection for integration of infrared-mediated DNA amplification with electrophoretic separation. <i>Lab on A Chip</i> , <b>2006</b> , 6, 601-10	7.2	68
37	Infrared temperature control system for a completely noncontact polymerase chain reaction in microfluidic chips. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 1294-300	7.8	67
36	Direct hydrogel encapsulation of pluripotent stem cells enables ontomimetic differentiation and growth of engineered human heart tissues. <i>Biomaterials</i> , <b>2016</b> , 83, 383-95	15.6	60
35	Lysozyme Dispersed Single-Walled Carbon Nanotubes: Interaction and Activity. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 10341-10348	3.8	52
34	Quantitative measurement of zinc secretion from pancreatic islets with high temporal resolution using droplet-based microfluidics. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 9086-95	7.8	52
33	A simple and rapid approach for measurement of dissociation constants of DNA aptamers against proteins and small molecules via automated microchip electrophoresis. <i>Analyst, The</i> , <b>2011</b> , 136, 3461-8	5	47
32	Improvement of sensitivity and dynamic range in proximity ligation assays by asymmetric connector hybridization. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 6976-82	7.8	43
31	3D-templated, fully automated microfluidic input/output multiplexer for endocrine tissue culture and secretion sampling. <i>Lab on A Chip</i> , <b>2017</b> , 17, 341-349	7.2	40
30	Passively operated microfluidic device for stimulation and secretion sampling of single pancreatic islets. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 7166-72	7.8	37

29	Self-regulated, droplet-based sample chopper for microfluidic absorbance detection. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 1510-6	7.8	35
28	Glass microfluidic devices with thin membrane voltage junctions for electrospray mass spectrometry. <i>Lab on A Chip</i> , <b>2005</b> , 5, 619-27	7.2	35
27	Macro-to-micro interfacing to microfluidic channels using 3D-printed templates: application to time-resolved secretion sampling of endocrine tissue. <i>Analyst, The</i> , <b>2016</b> , 141, 5714-5721	5	31
26	Rapid and inexpensive fabrication of polymeric microfluidic devices via toner transfer masking. <i>Lab on A Chip</i> , <b>2009</b> , 9, 1119-27	7.2	30
25	Creating biocompatible oil-water interfaces without synthesis: direct interactions between primary amines and carboxylated perfluorocarbon surfactants. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 10556-64	7.8	28
24	Extrinsic Fabry-Perot interferometry for noncontact temperature control of nanoliter-volume enzymatic reactions in glass microchips. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 1038-45	7.8	28
23	A microfluidic interface for the culture and sampling of adiponectin from primary adipocytes. <i>Analyst, The</i> , <b>2015</b> , 140, 1019-25	5	25
22	Thermal isolation of microchip reaction chambers for rapid non-contact DNA amplification. <i>Journal of Micromechanics and Microengineering</i> , <b>2007</b> , 17, 1758-1766	2	24
21	Measurement of microchannel fluidic resistance with a standard voltage meter. <i>Analytica Chimica Acta</i> , <b>2013</b> , 758, 101-7	6.6	23
20	A Nucleic Acid Nanostructure Built through On-Electrode Ligation for Electrochemical Detection of a Broad Range of Analytes. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 11721-11726	16.4	22
19	Automated microfluidic droplet sampling with integrated, mix-and-read immunoassays to resolve endocrine tissue secretion dynamics. <i>Lab on A Chip</i> , <b>2018</b> , 18, 2926-2935	7.2	21
18	An active microfluidic system packaging technology. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 122, 337-386	3.8	20
17	Capillary electrophoresis with laser-induced fluorescence detection for laboratory diagnosis of galactosemia. <i>Journal of Chromatography A</i> , <b>2003</b> , 1004, 29-37	4.5	20
16	Microfluidic systems for studying dynamic function of adipocytes and adipose tissue. <i>Analytical and Bioanalytical Chemistry</i> , <b>2018</b> , 410, 791-800	4.4	18
15	Quantifying Aptamer-Protein Binding via Thermofluorimetric Analysis. <i>Analytical Methods</i> , <b>2015</b> , 7, 7358-7362	3.7	15
14	Automated Microfluidic Droplet-Based Sample Chopper for Detection of Small Fluorescence Differences Using Lock-In Analysis. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 6153-6159	7.8	14
13	Homogeneous Assays of Second Messenger Signaling and Hormone Secretion Using Thermofluorimetric Methods That Minimize Calibration Burden. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 8517-8523	7.8	12
12	Culture and Sampling of Primary Adipose Tissue in Practical Microfluidic Systems. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1566, 185-201	1.4	11

11	Protein quantification using controlled DNA melting transitions in bivalent probe assemblies. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 9576-9	7.8	11
10	Rapid lipolytic oscillations in ex vivo adipose tissue explants revealed through microfluidic droplet sampling at high temporal resolution. <i>Lab on A Chip</i> , <b>2020</b> , 20, 1503-1512	7.2	11
9	Understanding Signal and Background in a Thermally Resolved, Single-Branched DNA Assay Using Square Wave Voltammetry. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 3584-3591	7.8	8
8	Advancement of analytical modes in a multichannel, microfluidic droplet-based sample chopper employing phase-locked detection. <i>Analytical Methods</i> , <b>2018</b> , 10, 3436-3443	3.2	6
7	Nonfaradaic Current Suppression in DNA-Based Electrochemical Assays with a Differential Potentiostat. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 15833-15839	7.8	5
6	Nucleic-Acid Driven Cooperative Bioassays Using Probe Proximity or Split-Probe Techniques. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 198-214	7.8	3
5	Rapid DNA amplification in glass microdevices. <i>Methods in Molecular Biology</i> , <b>2006</b> , 339, 217-32	1.4	2
4	Programmable $\mu$ Chopper Device with On-Chip Droplet Mergers for Continuous Assay Calibration. <i>Micromachines</i> , <b>2020</b> , 11,	3.3	2
3	Active Flow Control and Dynamic Analysis in Droplet Microfluidics. <i>Annual Review of Analytical Chemistry</i> , <b>2021</b> , 14, 133-153	12.5	2
2	CHAPTER 9:Tissue Engineering and Analysis in Droplet Microfluidics. <i>RSC Soft Matter</i> , <b>2020</b> , 223-260	0.5	1
1	Electrochemical Sensing of the Peptide Drug Exendin-4 Using a Versatile Nucleic Acid Nanostructure.. <i>ACS Sensors</i> , <b>2022</b> , 7, 784-789	9.2	1