

# David C Duffy

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8124723/publications.pdf>

Version: 2024-02-01

22  
papers

3,122  
citations

516710

16  
h-index

713466

21  
g-index

22  
all docs

22  
docs citations

22  
times ranked

4485  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-molecule enzyme-linked immunosorbent assay detects serum proteins at subfemtomolar concentrations. <i>Nature Biotechnology</i> , 2010, 28, 595-599.	17.5	1,557
2	The Simoa HD-1 Analyzer: A Novel Fully Automated Digital Immunoassay Analyzer with Single-Molecule Sensitivity and Multiplexing. <i>Journal of the Association for Laboratory Automation</i> , 2016, 21, 533-547.	2.8	307
3	Simultaneous Detection of Single Molecules and Singulated Ensembles of Molecules Enables Immunoassays with Broad Dynamic Range. <i>Analytical Chemistry</i> , 2011, 83, 2279-2285.	6.5	216
4	Hypoxia Due to Cardiac Arrest Induces a Time-Dependent Increase in Serum Amyloid $\beta^2$ Levels in Humans. <i>PLoS ONE</i> , 2011, 6, e28263.	2.5	149
5	Single molecule enzyme-linked immunosorbent assays: Theoretical considerations. <i>Journal of Immunological Methods</i> , 2012, 378, 102-115.	1.4	133
6	Multiplexed single molecule immunoassays. <i>Lab on A Chip</i> , 2013, 13, 2902.	6.0	131
7	Isolation and detection of single molecules on paramagnetic beads using sequential fluid flows in microfabricated polymer array assemblies. <i>Lab on A Chip</i> , 2012, 12, 977-985.	6.0	103
8	A fully-automated, six-plex single molecule immunoassay for measuring cytokines in blood. <i>Journal of Immunological Methods</i> , 2015, 424, 20-27.	1.4	83
9	Direct Detection of Bacterial Genomic DNA at Sub-Femtomolar Concentrations Using Single Molecule Arrays. <i>Analytical Chemistry</i> , 2013, 85, 1932-1939.	6.5	73
10	Fifth-Generation Digital Immunoassay for Prostate-Specific Antigen by Single Molecule Array Technology. <i>Clinical Chemistry</i> , 2011, 57, 1712-1721.	3.2	55
11	Development and Validation of Digital Enzyme-Linked Immunosorbent Assays for Ultrasensitive Detection and Quantification of <i>Clostridium difficile</i> Toxins in Stool. <i>Journal of Clinical Microbiology</i> , 2015, 53, 3204-3212.	3.9	50
12	Polymerase-free measurement of microRNA-122 with single base specificity using single molecule arrays: Detection of drug-induced liver injury. <i>PLoS ONE</i> , 2017, 12, e0179669.	2.5	48
13	Single molecule measurements of tumor necrosis factor $\beta$ and interleukin-6 in the plasma of patients with Crohn's disease. <i>Journal of Immunological Methods</i> , 2011, 372, 177-186.	1.4	46
14	Digital enzyme-linked immunosorbent assays with sub-attomolar detection limits based on low numbers of capture beads combined with high efficiency bead analysis. <i>Lab on A Chip</i> , 2020, 20, 2122-2135.	6.0	45
15	Simple diffusion-constrained immunoassay for p24 protein with the sensitivity of nucleic acid amplification for detecting acute HIV infection. <i>Journal of Virological Methods</i> , 2013, 188, 153-160.	2.1	41
16	Direct Detection of miR-122 in Hepatotoxicity Using Dynamic Chemical Labeling Overcomes Stability and isomiR Challenges. <i>Analytical Chemistry</i> , 2020, 92, 3388-3395.	6.5	32
17	Sensitivity and binding kinetics of an ultra-sensitive chemiluminescent enzyme-linked immunosorbent assay at arrays of antibodies. <i>Journal of Immunological Methods</i> , 2019, 474, 112643.	1.4	18
18	Customizable Multiplex Antibody Array Immunoassays with Attomolar Sensitivities. <i>Analytical Chemistry</i> , 2020, 92, 5613-5619.	6.5	12

#	ARTICLE	IF	CITATIONS
19	Measurement of Single Protein Molecules Using Digital ELISA. , 2013, , 223-242.		11
20	Short Keynote Paper: Single Molecule Detection of Protein Biomarkers to Define the Continuum From Health to Disease. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 1864-1868.	6.3	7
21	The optics inside an automated single molecule array analyzer. Proceedings of SPIE, 2014, , .	0.8	4
22	Ultrasensitive multiplexed chemiluminescent enzyme-linked immunosorbent assays in 384-well plates. Journal of Immunological Methods, 2022, 508, 113311.	1.4	1