

# Brian D Plouffe

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3150310/publications.pdf>

Version: 2024-02-01

20  
papers

1,197  
citations

567281  
15  
h-index

839539  
18  
g-index

21  
all docs

21  
docs citations

21  
times ranked

2231  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fundamentals and application of magnetic particles in cell isolation and enrichment: a review. Reports on Progress in Physics, 2015, 78, 016601.	20.1	261
2	Peptide-Mediated Selective Adhesion of Smooth Muscle and Endothelial Cells in Microfluidic Shear Flow. Langmuir, 2007, 23, 5050-5055.	3.5	135
3	An Integrated Platform for Isolation, Processing, and Mass Spectrometry-based Proteomic Profiling of Rare Cells in Whole Blood*. Molecular and Cellular Proteomics, 2015, 14, 1672-1683.	3.8	134
4	Clinically Relevant Microfluidic Magnetophoretic Isolation of Rare-Cell Populations for Diagnostic and Therapeutic Monitoring Applications. Analytical Chemistry, 2012, 84, 1336-1344.	6.5	92
5	Development of microfluidics as endothelial progenitor cell capture technology for cardiovascular tissue engineering and diagnostic medicine. FASEB Journal, 2009, 23, 3309-3314.	0.5	84
6	Galectin-3 and aldosterone as potential tandem biomarkers in pulmonary arterial hypertension. Heart, 2016, 102, 390-396.	2.9	75
7	Microfluidic depletion of endothelial cells, smooth muscle cells, and fibroblasts from heterogeneous suspensions. Lab on A Chip, 2008, 8, 462.	6.0	69
8	Regeneration of glycocalyx by heparan sulfate and sphingosine 1-phosphate restores inter-endothelial communication. PLoS ONE, 2017, 12, e0186116.	2.5	59
9	Controlled capture and release of cardiac fibroblasts using peptide-functionalized alginate gels in microfluidic channels. Lab on A Chip, 2009, 9, 1507.	6.0	56
10	Functionalization-induced improvement in magnetic properties of Fe <sub>3</sub> O <sub>4</sub> nanoparticles for biomedical applications. Journal of Applied Physics, 2009, 105, .	2.5	51
11	Computational design optimization for microfluidic magnetophoresis. Biomicrofluidics, 2011, 5, 13413.	2.4	48
12	Design and validation of an endothelial progenitor cell capture chip and its application in patients with pulmonary arterial hypertension. Journal of Molecular Medicine, 2011, 89, 971-983.	3.9	43
13	Perspective on Microfluidic Cell Separation: A Solved Problem?. Analytical Chemistry, 2014, 86, 11481-11488.	6.5	32
14	Thermomagnetic determination of Fe <sub>3</sub> O <sub>4</sub> magnetic nanoparticle diameters for biomedical applications. Journal of Magnetism and Magnetic Materials, 2011, 323, 2310-2317.	2.3	24
15	Fluorescence-based lateral flow assays for rapid oral fluid roadside detection of cannabis use. Electrophoresis, 2017, 38, 501-506.	2.4	24
16	Soluble Receptor for Advanced Glycation End Products (sRAGE) Is a Sensitive Biomarker in Human Pulmonary Arterial Hypertension. International Journal of Molecular Sciences, 2021, 22, 8591.	4.1	7
17	Circulating Endothelial Cell Quantification by Microfluidics Chip in Pulmonary Arterial Hypertension. American Journal of Respiratory Cell and Molecular Biology, 2017, 56, 680-682.	2.9	2
18	Microfluidic cell separation: applications and challenges in tissue engineering. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
19	Design And Validation Of A Novel Endothelial Progenitor Cell (EPC) Microfluidic Capture Chip And Its Application In Patients With Pulmonary Arterial Hypertension. , 2011, , .		0
20	Functionalized Microfluidic Devices for Separation of Cell Phenotypes. , 2013, , 325-340.		0