

# Erwin Berthier

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64  
papers

2,138  
citations

24  
h-index

46  
g-index

83  
ext. papers

2,632  
ext. citations

6.8  
avg, IF

5.02  
L-index

#	Paper	IF	Citations
64	Miniaturizing Wet Scrubbers for Aerosolized Droplet Capture. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 11433-11441	7.8	0
63	RNA: A Self-Sampling Kit for the Collection of Peripheral Blood and Stabilization of RNA. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 13196-13203	7.8	1
62	Open microfluidic coculture reveals paracrine signaling from human kidney epithelial cells promotes kidney specificity of endothelial cells. <i>American Journal of Physiology - Renal Physiology</i> , <b>2020</b> , 319, F41-F51	4.3	3
61	Localized Cell-Surface Sampling of a Secreted Factor Using Cell-Targeting Beads. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 13634-13640	7.8	
60	Localized Cell-Surface Sampling of a Secreted Factor Using Cell-Targeting Beads. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 13634-13640	7.8	
59	Layer-by-layer fabrication of 3D hydrogel structures using open microfluidics. <i>Lab on A Chip</i> , <b>2020</b> , 20, 525-536	7.2	15
58	Fungal oxylipins direct programmed developmental switches in filamentous fungi. <i>Nature Communications</i> , <b>2020</b> , 11, 5158	17.4	15
57	Clinical application of volumetric absorptive microsampling to the gefapixant development program. <i>Bioanalysis</i> , <b>2020</b> , 12, 893-904	2.1	7
56	Open-Channel Capillary Trees and Capillary Pumping. <i>Langmuir</i> , <b>2020</b> , 36, 12795-12803	4	4
55	Investigating Fibroblast-Induced Collagen Gel Contraction Using a Dynamic Microscale Platform. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2019</b> , 7, 196	5.8	13
54	Droplet Incubation and Splitting in Open Microfluidic Channels. <i>Analytical Methods</i> , <b>2019</b> , 11, 4528-4536	3.2	12
53	User-defined morphogen patterning for directing human cell fate stratification. <i>Scientific Reports</i> , <b>2019</b> , 9, 6433	4.9	5
52	Spatial presentation of biological molecules to cells by localized diffusive transfer. <i>Lab on A Chip</i> , <b>2019</b> , 19, 2114-2126	7.2	1
51	Stable biphasic interfaces for open microfluidic platforms. <i>Biomedical Microdevices</i> , <b>2019</b> , 21, 16	3.7	6
50	Reconfigurable open microfluidics for studying the spatiotemporal dynamics of paracrine signalling. <i>Nature Biomedical Engineering</i> , <b>2019</b> , 3, 830-841	19	38
49	Capillary Flow in Open Microgrooves: Bifurcations and Networks. <i>Langmuir</i> , <b>2019</b> , 35, 10667-10675	4	6
48	Open Microfluidic Capillary Systems. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 8739-8750	7.8	43

47	Droplet Behavior in Open Biphasic Microfluidics. <i>Langmuir</i> , <b>2018</b> , 34, 5358-5366	4	11
46	Fundamentals of rapid injection molding for microfluidic cell-based assays. <i>Lab on A Chip</i> , <b>2018</b> , 18, 496-504		42
45	Multikingdom microscale models. <i>PLoS Pathogens</i> , <b>2017</b> , 13, e1006424	7.6	5
44	Microbial volatile communication in human organotypic lung models. <i>Nature Communications</i> , <b>2017</b> , 8, 1770	17.4	43
43	Upgrading well plates using open microfluidic patterning. <i>Lab on A Chip</i> , <b>2017</b> , 17, 4253-4264	7.2	25
42	<b>2016</b> ,		46
41	Suspended Capillary Flows <b>2016</b> , 157-205		
40	Theory of Spontaneous Capillary Flows <b>2016</b> , 13-56		
39	Fiber-Based Microfluidics <b>2016</b> , 257-302		
38	Paper-Based Microfluidics <b>2016</b> , 229-256		2
37	Microbial metabolomics in open microscale platforms. <i>Nature Communications</i> , <b>2016</b> , 7, 10610	17.4	67
36	Dynamics of Capillary Flow in a Channel with Constrictions and Enlargements <b>2016</b> , 125-156		
35	Capillary Filaments <b>2016</b> , 57-89		
34	Spontaneous Capillary Flows in Open U-Grooves <b>2016</b> , 91-123		
33	Spontaneous Capillary Flow Between Horizontal Rails <b>2016</b> , 207-228		
32	Human iNKT Cells Promote Protective Inflammation by Inducing Oscillating Purinergic Signaling in Monocyte-Derived DCs. <i>Cell Reports</i> , <b>2016</b> , 16, 3273-3285	10.6	15
31	Integrin associated proteins differentially regulate neutrophil polarity and directed migration in 2D and 3D. <i>Biomedical Microdevices</i> , <b>2015</b> , 17, 100	3.7	22
30	High-density self-contained microfluidic KOALA kits for use by everyone. <i>Journal of the Association for Laboratory Automation</i> , <b>2015</b> , 20, 146-53		9

29	Microbe-Independent Entry of Oomycete RxLR Effectors and Fungal RxLR-Like Effectors Into Plant and Animal Cells Is Specific and Reproducible. <i>Molecular Plant-Microbe Interactions</i> , <b>2015</b> , 2015, 51-56	3.6	
28	Characterizing asthma from a drop of blood using neutrophil chemotaxis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 5813-8	11.5	51
27	A Golgi-localized pool of the mitotic checkpoint component Mad1 controls integrin secretion and cell migration. <i>Current Biology</i> , <b>2014</b> , 24, 2687-92	6.3	16
26	A general condition for spontaneous capillary flow in uniform cross-section microchannels. <i>Microfluidics and Nanofluidics</i> , <b>2014</b> , 16, 779-785	2.8	35
25	Fluorescence-based assessment of plasma-induced hydrophilicity in microfluidic devices via Nile Red adsorption and depletion. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 7258-63	7.8	4
24	A Microfluidic Assay for Identifying Differential Responses of Plant and Human Fungal Pathogens to Tobacco Phylloplanins. <i>Plant Health Progress</i> , <b>2014</b> , 15, 130-134	1.2	3
23	Metastable capillary filaments in rectangular cross-section open microchannels. <i>AIMS Biophysics</i> , <b>2014</b> , 1, 31-48	0.8	12
22	Kit-On-A-Lid-Assays for accessible self-contained cell assays. <i>Lab on A Chip</i> , <b>2013</b> , 13, 424-31	7.2	19
21	Assessment of enhanced autofluorescence and impact on cell microscopy for microfabricated thermoplastic devices. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 44-9	7.8	32
20	RsmA regulates <i>Aspergillus fumigatus</i> gliotoxin cluster metabolites including cyclo(L-Phe-L-Ser), a potential new diagnostic marker for invasive aspergillosis. <i>PLoS ONE</i> , <b>2013</b> , 8, e62591	3.7	32
19	Low-volume toolbox for the discovery of immunosuppressive fungal secondary metabolites. <i>PLoS Pathogens</i> , <b>2013</b> , 9, e1003289	7.6	52
18	Suspended microfluidics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 10111-6	11.5	117
17	Induced hydrophobic recovery of oxygen plasma-treated surfaces. <i>Lab on A Chip</i> , <b>2012</b> , 12, 2317-21	7.2	14
16	An inertia enhanced passive pumping mechanism for fluid flow in microfluidic devices. <i>Lab on A Chip</i> , <b>2012</b> , 12, 2221-8	7.2	19
15	Microfluidic kit-on-a-lid: a versatile platform for neutrophil chemotaxis assays. <i>Blood</i> , <b>2012</b> , 120, e45-53	2.2	64
14	Engineers are from PDMS-land, Biologists are from Polystyrenia. <i>Lab on A Chip</i> , <b>2012</b> , 12, 1224-37	7.2	588
13	The actin regulatory protein HS1 interacts with Arp2/3 and mediates efficient neutrophil chemotaxis. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 25466-77	5.4	24
12	Rapid prototyping of arrayed microfluidic systems in polystyrene for cell-based assays. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 1408-17	7.8	127

11	Pipette-friendly laminar flow patterning for cell-based assays. <i>Lab on A Chip</i> , <b>2011</b> , 11, 2060-5	7.2	26
10	Hax1 regulates neutrophil adhesion and motility through RhoA. <i>Journal of Cell Biology</i> , <b>2011</b> , 193, 465-73	7.3	41
9	Hax1 regulates neutrophil adhesion and motility through RhoA. <i>Journal of Experimental Medicine</i> , <b>2011</b> , 208, i14-i14	16.6	
8	An automated microdroplet passive pumping platform for high-speed and packeted microfluidic flow applications. <i>Lab on A Chip</i> , <b>2010</b> , 10, 23-6	7.2	23
7	An arrayed high-content chemotaxis assay for patient diagnosis. <i>Integrative Biology (United Kingdom)</i> , <b>2010</b> , 2, 630-8	3.7	51
6	Managing evaporation for more robust microscale assays. Part 1. Volume loss in high throughput assays. <i>Lab on A Chip</i> , <b>2008</b> , 8, 852-9	7.2	92
5	Managing evaporation for more robust microscale assays. Part 2. Characterization of convection and diffusion for cell biology. <i>Lab on A Chip</i> , <b>2008</b> , 8, 860-4	7.2	39
4	Bead-based microfluidic toxin sensor integrating evaporative signal amplification. <i>Lab on A Chip</i> , <b>2008</b> , 8, 1793-800	7.2	29
3	Backward flow in a surface tension driven micropump. <i>Journal of Micromechanics and Microengineering</i> , <b>2008</b> , 18, 087002	2	22
2	Flow rate analysis of a surface tension driven passive micropump. <i>Lab on A Chip</i> , <b>2007</b> , 7, 1475-8	7.2	147
1	Open channel droplet-based microfluidics		3