

# Xavier Casadevall i Solvas

## List of Publications by Citations

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23  
papers

1,546  
citations

14  
h-index

27  
g-index

27  
ext. papers

1,779  
ext. citations

8.9  
avg, IF

4.92  
L-index

#	Paper	IF	Citations
23	The past, present and potential for microfluidic reactor technology in chemical synthesis. <i>Nature Chemistry</i> , <b>2013</b> , 5, 905-15	17.6	789
22	Droplet microfluidics: recent developments and future applications. <i>Chemical Communications</i> , <b>2011</b> , 47, 1936-42	5.8	251
21	Soil-on-a-Chip: microfluidic platforms for environmental organismal studies. <i>Lab on A Chip</i> , <b>2016</b> , 16, 228-41	7.2	81
20	Chemical and Biological Dynamics Using Droplet-Based Microfluidics. <i>Annual Review of Analytical Chemistry</i> , <b>2017</b> , 10, 1-24	12.5	60
19	Hydrodynamics in Cell Studies. <i>Chemical Reviews</i> , <b>2018</b> , 118, 2042-2079	68.1	49
18	Microfluidic generation of encapsulated droplet interface bilayer networks (multisomes) and their use as cell-like reactors. <i>Chemical Communications</i> , <b>2016</b> , 52, 5961-4	5.8	49
17	Mapping of fluidic mixing in microdroplets with 1 microsecond time resolution using fluorescence lifetime imaging. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 3950-6	7.8	45
16	High-throughput age synchronisation of <i>Caenorhabditis elegans</i> . <i>Chemical Communications</i> , <b>2011</b> , 47, 9801-3	5.8	37
15	Microfluidic-Based Droplet and Cell Manipulations Using Artificial Bacterial Flagella. <i>Micromachines</i> , <b>2016</b> , 7,	3.3	34
14	Dynamic wetting in microfluidic droplet formation. <i>Biochip Journal</i> , <b>2014</b> , 8, 122-128	4	23
13	"V-junction": a novel structure for high-speed generation of bespoke droplet flows. <i>Analyst, The</i> , <b>2015</b> , 140, 414-21	5	22
12	Microfluidic evaporator for on-chip sample concentration. <i>Lab on A Chip</i> , <b>2012</b> , 12, 4049-54	7.2	21
11	Hydrophilic Surface Modification of PDMS Microchannel for O/W and W/O/W Emulsions. <i>Micromachines</i> , <b>2015</b> , 6, 1445-1458	3.3	17
10	Long-term <i>C. elegans</i> immobilization enables high resolution developmental studies in vivo. <i>Lab on A Chip</i> , <b>2018</b> , 18, 1359-1368	7.2	15
9	Fluorescence detection methods for microfluidic droplet platforms. <i>Journal of Visualized Experiments</i> , <b>2011</b> ,	1.6	12
8	Acoustic Compressibility of <i>Caenorhabditis elegans</i> . <i>Biophysical Journal</i> , <b>2018</b> , 115, 1817-1825	2.9	11
7	Real-Time PEGDA-Based Microgel Generation and Encapsulation in Microdroplets. <i>Advanced Materials Technologies</i> , <b>2016</b> , 1, 1600028	6.8	8

6	Micromixing and flow manipulation with polymer microactuators. <i>Microfluidics and Nanofluidics</i> , <b>2011</b> , 11, 405-416	2.8	5
5	Utilization of electroactive polymer actuators in micromixing and in extended-life biosensor applications <b>2010</b> ,		5
4	Au/PPy Actuators for Active Micromixing and Mass Transport Enhancement. <i>Micro and Nanosystems</i> , <b>2009</b> , 1, 2-11	0.6	5
3	Heterogeneity in heat shock response dynamics caused by translation fidelity decline and proteostasis collapse		2
2	Stochastic and Age-Dependent Proteostasis Decline Underlies Heterogeneity in Heat-Shock Response Dynamics. <i>Small</i> , <b>2021</b> , 17, e2102145	11	0
1	Microfluidics: Stochastic and Age-Dependent Proteostasis Decline Underlies Heterogeneity in Heat-Shock Response Dynamics (Small 30/2021). <i>Small</i> , <b>2021</b> , 17, 2170157	11	