

# Alexandre Persat

## List of Publications by Year in descending order

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29  
papers

2,066  
citations

394421

19  
h-index

552781

26  
g-index

43  
all docs

43  
docs citations

43  
times ranked

2519  
citing authors

#	ARTICLE	IF	CITATIONS
1	KRAB zinc finger protein ZNF676 controls the transcriptional influence of LTR12-related endogenous retrovirus sequences. <i>Mobile DNA</i> , 2022, 13, 4.	3.6	19
2	Roadmap on emerging concepts in the physical biology of bacterial biofilms: from surface sensing to community formation. <i>Physical Biology</i> , 2021, 18, 051501.	1.8	46
3	Monodisperse Selectively Permeable Hydrogel Capsules Made from Single Emulsion Drops. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 15601-15609.	8.0	12
4	Mechanotaxis directs <i>Pseudomonas aeruginosa</i> twitching motility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	45
5	The Mammalian Membrane Microenvironment Regulates the Sequential Attachment of Bacteria to Host Cells. <i>MBio</i> , 2021, 12, e0139221.	4.1	13
6	Time-Resolved Scanning Ion Conductance Microscopy for Three-Dimensional Tracking of Nanoscale Cell Surface Dynamics. <i>ACS Nano</i> , 2021, 15, 17613-17622.	14.6	31
7	The wall-less bacterium <i>Spiroplasma poulsonii</i> builds a polymeric cytoskeleton composed of interacting MreB isoforms. <i>IScience</i> , 2021, 24, 103458.	4.1	10
8	Mechanobiology: how bacteria sense and respond to forces. <i>Nature Reviews Microbiology</i> , 2020, 18, 227-240.	28.6	171
9	Biofilms deform soft surfaces and disrupt epithelia. <i>ELife</i> , 2020, 9, .	6.0	37
10	<i>Vibrio cholerae</i> filamentation promotes chitin surface attachment at the expense of competition in biofilms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14216-14221.	7.1	47
11	Cellular advective-diffusion drives the emergence of bacterial surface colonization patterns and heterogeneity. <i>Nature Communications</i> , 2019, 10, 2471.	12.8	30
12	<i>Pseudomonas aeruginosa</i> orchestrates twitching motility by sequential control of type IV pili movements. <i>Nature Microbiology</i> , 2019, 4, 774-780.	13.3	109
13	Bacterial mechanotransduction. <i>Current Opinion in Microbiology</i> , 2017, 36, 1-6.	5.1	55
14	A Periplasmic Polymer Curves <i>Vibrio cholerae</i> and Promotes Pathogenesis. <i>Cell</i> , 2017, 168, 172-185.e15.	28.9	78
15	Flipping the switch. <i>ELife</i> , 2017, 6, .	6.0	0
16	A scaffold protein connects type IV pili with the Chp chemosensory system to mediate activation of virulence signaling in <i>Pseudomonas aeruginosa</i> . <i>Molecular Microbiology</i> , 2016, 101, 590-605.	2.5	69
17	An Ohmic model for electrokinetic flows of binary asymmetric electrolytes. <i>Current Opinion in Colloid and Interface Science</i> , 2016, 24, 52-63.	7.4	12
18	The Mechanical World of Bacteria. <i>Cell</i> , 2015, 161, 988-997.	28.9	422

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19	Type IV pili mechanochemically regulate virulence factors in <i>Pseudomonas aeruginosa</i> . Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7563-7568.	7.1	320
20	The curved shape of <i>Caulobacter crescentus</i> enhances surface colonization in flow. Nature Communications, 2014, 5, 3824.	12.8	95
21	Bacterial Evolution: Rewiring Modules to Get in Shape. Current Biology, 2014, 24, R522-R524.	3.9	4
22	MicroRNA Profiling by Simultaneous Selective Isotachophoresis and Hybridization with Molecular Beacons. Analytical Chemistry, 2011, 83, 2310-2316.	6.5	74
23	Quantification of Global MicroRNA Abundance by Selective Isotachophoresis. Analytical Chemistry, 2010, 82, 9631-9635.	6.5	31
24	Electrokinetic control of sample splitting at a channel bifurcation using isotachophoresis. New Journal of Physics, 2009, 11, 075026.	2.9	17
25	Basic principles of electrolyte chemistry for microfluidic electrokinetics. Part II: Coupling between ion mobility, electrolysis, and acid-base equilibria. Lab on A Chip, 2009, 9, 2454.	6.0	94
26	Basic principles of electrolyte chemistry for microfluidic electrokinetics. Part I: Acid-base equilibria and pH buffers. Lab on A Chip, 2009, 9, 2437.	6.0	100
27	Purification of Nucleic Acids from Whole Blood Using Isotachophoresis. Analytical Chemistry, 2009, 81, 9507-9511.	6.5	95
28	On-Chip Preconcentration and Separation of Simple and Complex Analytes Using Isotachophoresis. , 2007, , 857.		0
29	On-Chip Isothermal Polymerase Chain Reaction. , 2007, , .		0