

Alexandre Persat

List of Publications by Year in descending order

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Version: 2024-02-01

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	The Mechanical World of Bacteria. <i>Cell</i> , 2015, 161, 988-997.	28.9	422
2	Type IV pili mechanochemically regulate virulence factors in <i>Pseudomonas aeruginosa</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7563-7568.	7.1	320
3	Mechanobiology: how bacteria sense and respond to forces. <i>Nature Reviews Microbiology</i> , 2020, 18, 227-240.	28.6	171
4	<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
5	Basic principles of electrolyte chemistry for microfluidic electrokinetics. Part I: Acid-base equilibria and pH buffers. <i>Lab on A Chip</i> , 2009, 9, 2437.	6.0	100
6	Purification of Nucleic Acids from Whole Blood Using Isotachopheresis. <i>Analytical Chemistry</i> , 2009, 81, 9507-9511.	6.5	95
7	The curved shape of <i>Caulobacter crescentus</i> enhances surface colonization in flow. <i>Nature Communications</i> , 2014, 5, 3824.	12.8	95
8	Basic principles of electrolyte chemistry for microfluidic electrokinetics. Part II: Coupling between ion mobility, electrolysis, and acid-base equilibria. <i>Lab on A Chip</i> , 2009, 9, 2454.	6.0	94
9	A Periplasmic Polymer Curves <i>Vibrio cholerae</i> and Promotes Pathogenesis. <i>Cell</i> , 2017, 168, 172-185.e15.	28.9	78
10	MicroRNA Profiling by Simultaneous Selective Isotachopheresis and Hybridization with Molecular Beacons. <i>Analytical Chemistry</i> , 2011, 83, 2310-2316.	6.5	74
11	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
12	Bacterial mechanotransduction. <i>Current Opinion in Microbiology</i> , 2017, 36, 1-6.	5.1	55
13	<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
14	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
15	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
16	Biofilms deform soft surfaces and disrupt epithelia. <i>ELife</i> , 2020, 9, .	6.0	37
17	Quantification of Global MicroRNA Abundance by Selective Isotachopheresis. <i>Analytical Chemistry</i> , 2010, 82, 9631-9635.	6.5	31
18	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

#	ARTICLE	IF	CITATIONS
19	Cellular advective-diffusion drives the emergence of bacterial surface colonization patterns and heterogeneity. <i>Nature Communications</i> , 2019, 10, 2471.	12.8	30
20	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
21	Electrokinetic control of sample splitting at a channel bifurcation using isotachophoresis. <i>New Journal of Physics</i> , 2009, 11, 075026.	2.9	17
22	The Mammalian Membrane Microenvironment Regulates the Sequential Attachment of Bacteria to Host Cells. <i>MBio</i> , 2021, 12, e0139221.	4.1	13
23	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
24	Monodisperse Selectively Permeable Hydrogel Capsules Made from Single Emulsion Drops. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15601-15609.	8.0	12
25	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
26	Bacterial Evolution: Rewiring Modules to Get in Shape. <i>Current Biology</i> , 2014, 24, R522-R524.	3.9	4
27	On-Chip Preconcentration and Separation of Simple and Complex Analytes Using Isotachophoresis. , 2007, , 857.		0
28	On-Chip Isothermal Polymerase Chain Reaction. , 2007, , .		0
29	Flipping the switch. <i>ELife</i> , 2017, 6, .	6.0	0