

Luis Alvarez

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2886906/publications.pdf>

Version: 2024-02-01

25
papers

1,561
citations

430754

18
h-index

610775

24
g-index

28
all docs

28
docs citations

28
times ranked

1598
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2020 motile active matter roadmap. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 193001.	0.7	242
2	Sperm navigation along helical paths in 3D chemoattractant landscapes. <i>Nature Communications</i> , 2015, 6, 7985.	5.8	157
3	Direct action of endocrine disrupting chemicals on human sperm. <i>EMBO Reports</i> , 2014, 15, 758-765.	2.0	137
4	The computational sperm cell. <i>Trends in Cell Biology</i> , 2014, 24, 198-207.	3.6	106
5	Controlling fertilization and cAMP signaling in sperm by optogenetics. <i>ELife</i> , 2015, 4, .	2.8	99
6	The C at S per channel controls chemosensation in sea urchin sperm. <i>EMBO Journal</i> , 2015, 34, 379-392.	3.5	93
7	The rate of change in Ca^{2+} concentration controls sperm chemotaxis. <i>Journal of Cell Biology</i> , 2012, 196, 653-663.	2.3	88
8	Tubulin glycylation controls axonemal dynein activity, flagellar beat, and male fertility. <i>Science</i> , 2021, 371, .	6.0	84
9	Human sperm steer with second harmonics of the flagellar beat. <i>Nature Communications</i> , 2017, 8, 1415.	5.8	79
10	A novel cross-species inhibitor to study the function of CatSper Ca^{2+} channels in sperm. <i>British Journal of Pharmacology</i> , 2018, 175, 3144-3161.	2.7	60
11	Sperm from Sneaker Male Squids Exhibit Chemotactic Swarming to CO_2 . <i>Current Biology</i> , 2013, 23, 775-781.	1.8	50
12	CRISPR-A Novel cAMP-Binding Protein Controlling Spermiogenesis and the Development of Flagellar Bending. <i>PLoS Genetics</i> , 2013, 9, e1003960.	1.5	45
13	Caged Progesterone: A New Tool for Studying Rapid Nongenomic Actions of Progesterone. <i>Journal of the American Chemical Society</i> , 2009, 131, 4027-4030.	6.6	43
14	A K^+ -selective CNG channel orchestrates Ca^{2+} signalling in zebrafish sperm. <i>ELife</i> , 2015, 4, .	2.8	42
15	Temporal sampling, resetting, and adaptation orchestrate gradient sensing in sperm. <i>Journal of Cell Biology</i> , 2012, 198, 1075-1091.	2.3	37
16	At the physical limit chemosensation in sperm. <i>Current Opinion in Neurobiology</i> , 2015, 34, 110-116.	2.0	28
17	Sperm as microswimmers navigation and sensing at the physical limit. <i>European Physical Journal: Special Topics</i> , 2016, 225, 2119-2139.	1.2	28
18	Targeted inactivation of the mouse epididymal beta-defensin 41 alters sperm flagellar beat pattern and zona pellucida binding. <i>Molecular and Cellular Endocrinology</i> , 2016, 427, 143-154.	1.6	28

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19	The steering gaits of sperm. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190149.	1.8	24
20	Reconstruction of the three-dimensional beat pattern underlying swimming behaviors of sperm. European Physical Journal E, 2021, 44, 87.	0.7	23
21	Absolute proteomic quantification reveals design principles of sperm flagellar chemosensation. EMBO Journal, 2020, 39, e102723.	3.5	22
22	The tailored sperm cell. Journal of Plant Research, 2017, 130, 455-464.	1.2	17
23	Kinetic and photonic techniques to study chemotactic signaling in sea urchin sperm. Methods in Cell Biology, 2019, 151, 487-517.	0.5	15
24	Multifocal imaging for precise, label-free tracking of fast biological processes in 3D. Nature Communications, 2021, 12, 4574.	5.8	9
25	The rate of change in Ca^{2+} concentration controls sperm chemotaxis. Journal of General Physiology, 2012, 139, i2-i2.	0.9	0