

Antonio Z Politi

List of Publications by Citations

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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.

29
papers

1,466
citations

19
h-index

33
g-index

33
ext. papers

1,841
ext. citations

13.5
avg, IF

4.32
L-index

#	Paper	IF	Citations
29	Ki-67 acts as a biological surfactant to disperse mitotic chromosomes. <i>Nature</i> , 2016 , 535, 308-12	50.4	269
28	Models of IP3 and Ca ²⁺ oscillations: frequency encoding and identification of underlying feedbacks. <i>Biophysical Journal</i> , 2006 , 90, 3120-33	2.9	117
27	Nuclear pore assembly proceeds by an inside-out extrusion of the nuclear envelope. <i>ELife</i> , 2016 , 5,	8.9	107
26	Stochastic and reversible assembly of a multiprotein DNA repair complex ensures accurate target site recognition and efficient repair. <i>Journal of Cell Biology</i> , 2010 , 189, 445-63	7.3	101
25	Intercellular Ca ²⁺ wave propagation through gap-junctional Ca ²⁺ diffusion: a theoretical study. <i>Biophysical Journal</i> , 2001 , 80, 75-87	2.9	100
24	A quantitative map of human Condensins provides new insights into mitotic chromosome architecture. <i>Journal of Cell Biology</i> , 2018 , 217, 2309-2328	7.3	89
23	Dual-spindle formation in zygotes keeps parental genomes apart in early mammalian embryos. <i>Science</i> , 2018 , 361, 189-193	33.3	72
22	Experimental and computational framework for a dynamic protein atlas of human cell division. <i>Nature</i> , 2018 , 561, 411-415	50.4	65
21	Decoding of calcium oscillations by phosphorylation cycles: analytic results. <i>Biophysical Journal</i> , 2008 , 94, 1203-15	2.9	64
20	A mathematical model of airway and pulmonary arteriole smooth muscle. <i>Biophysical Journal</i> , 2008 , 94, 2053-64	2.9	61
19	A multiscale, spatially distributed model of asthmatic airway hyper-responsiveness. <i>Journal of Theoretical Biology</i> , 2010 , 266, 614-24	2.3	60
18	Live imaging and modeling of inner nuclear membrane targeting reveals its molecular requirements in mammalian cells. <i>Journal of Cell Biology</i> , 2015 , 209, 705-20	7.3	53
17	Mathematical modeling of nucleotide excision repair reveals efficiency of sequential assembly strategies. <i>Molecular Cell</i> , 2005 , 19, 679-90	17.6	52
16	Absolute quantification of cohesin, CTCF and their regulators in human cells. <i>ELife</i> , 2019 , 8,	8.9	44
15	Quantitative mapping of fluorescently tagged cellular proteins using FCS-calibrated four-dimensional imaging. <i>Nature Protocols</i> , 2018 , 13, 1445-1464	18.8	41
14	Comparative assessment of fluorescent transgene methods for quantitative imaging in human cells. <i>Molecular Biology of the Cell</i> , 2014 , 25, 3610-8	3.5	38
13	Spindle pole body-anchored Kar3 drives the nucleus along microtubules from another nucleus in preparation for nuclear fusion during yeast karyogamy. <i>Genes and Development</i> , 2013 , 27, 335-49	12.6	24

12	Geometrical and mechanical properties control actin filament organization. <i>PLoS Computational Biology</i> , 2015 , 11, e1004245	5	22
11	Parental genome unification is highly error-prone in mammalian embryos. <i>Cell</i> , 2021 , 184, 2860-2877.e22	6.2	21
10	Mechanism of nuclear movements in a multinucleated cell. <i>Molecular Biology of the Cell</i> , 2017 , 28, 645-660	5	16
9	Electron tomography of the microtubule cytoskeleton in multinucleated hyphae of <i>Ashbya gossypii</i> . <i>Journal of Cell Science</i> , 2012 , 125, 5830-9	5.3	14
8	Feedback, Mass Conservation and Reaction Kinetics Impact the Robustness of Cellular Oscillations. <i>PLoS Computational Biology</i> , 2016 , 12, e1005298	5	10
7	An actin-dependent spindle position checkpoint ensures the asymmetric division in mouse oocytes. <i>Nature Communications</i> , 2015 , 6, 7784	17.4	7
6	Quantitative mapping of fluorescently tagged cellular proteins using FCS-calibrated four dimensional imaging		4
5	Parental genome unification is highly erroneous in mammalian embryos		4
4	Experimental and computational framework for a dynamic protein atlas of human cell division		3
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