

Antonio Z Politi

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

2,062
citations

361413

20
h-index

610901

24
g-index

33
all docs

33
docs citations

33
times ranked

3130
citing authors

#	ARTICLE	IF	CITATIONS
1	Ki-67 acts as a biological surfactant to disperse mitotic chromosomes. <i>Nature</i> , 2016, 535, 308-312.	27.8	392
2	A quantitative map of human Condensins provides new insights into mitotic chromosome architecture. <i>Journal of Cell Biology</i> , 2018, 217, 2309-2328.	5.2	151
3	Models of IP3 and Ca ²⁺ Oscillations: Frequency Encoding and Identification of Underlying Feedbacks. <i>Biophysical Journal</i> , 2006, 90, 3120-3133.	0.5	143
4	Nuclear pore assembly proceeds by an inside-out extrusion of the nuclear envelope. <i>ELife</i> , 2016, 5, .	6.0	143
5	Dual-spindle formation in zygotes keeps parental genomes apart in early mammalian embryos. <i>Science</i> , 2018, 361, 189-193.	12.6	118
6	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, 445-463.	5.2	114
7	Intercellular Ca ²⁺ Wave Propagation through Gap-Junctional Ca ²⁺ Diffusion: A Theoretical Study. <i>Biophysical Journal</i> , 2001, 80, 75-87.	0.5	109
8	Experimental and computational framework for a dynamic protein atlas of human cell division. <i>Nature</i> , 2018, 561, 411-415.	27.8	98
9	Parental genome unification is highly error-prone in mammalian embryos. <i>Cell</i> , 2021, 184, 2860-2877.e22.	28.9	89
10	Absolute quantification of cohesin, CTCF and their regulators in human cells. <i>ELife</i> , 2019, 8, .	6.0	79
11	Decoding of Calcium Oscillations by Phosphorylation Cycles: Analytic Results. <i>Biophysical Journal</i> , 2008, 94, 1203-1215.	0.5	78
12	A Mathematical Model of Airway and Pulmonary Arteriole Smooth Muscle. <i>Biophysical Journal</i> , 2008, 94, 2053-2064.	0.5	72
13	A multiscale, spatially distributed model of asthmatic airway hyper-responsiveness. <i>Journal of Theoretical Biology</i> , 2010, 266, 614-624.	1.7	70
14	Live imaging and modeling of inner nuclear membrane targeting reveals its molecular requirements in mammalian cells. <i>Journal of Cell Biology</i> , 2015, 209, 705-720.	5.2	67
15	Quantitative mapping of fluorescently tagged cellular proteins using FCS-calibrated four-dimensional imaging. <i>Nature Protocols</i> , 2018, 13, 1445-1464.	12.0	64
16	Mathematical Modeling of Nucleotide Excision Repair Reveals Efficiency of Sequential Assembly Strategies. <i>Molecular Cell</i> , 2005, 19, 679-690.	9.7	60
17	Comparative assessment of fluorescent transgene methods for quantitative imaging in human cells. <i>Molecular Biology of the Cell</i> , 2014, 25, 3610-3618.	2.1	50
18	Geometrical and Mechanical Properties Control Actin Filament Organization. <i>PLoS Computational Biology</i> , 2015, 11, e1004245.	3.2	30

#	ARTICLE	IF	CITATIONS
19	Colocalization of different neurotransmitter transporters on synaptic vesicles is sparse except for VGLUT1 and ZnT3. <i>Neuron</i> , 2022, 110, 1483-1497.e7.	8.1	28
20	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, 335-349.	5.9	25
21	Mechanism of nuclear movements in a multinucleated cell. <i>Molecular Biology of the Cell</i> , 2017, 28, 645-660.	2.1	20
22	Electron tomography of the microtubule cytoskeleton in multinucleated hyphae of <i>Ashbya gossypii</i> . <i>Journal of Cell Science</i> , 2012, 125, 5830-9.	2.0	16
23	Feedback, Mass Conservation and Reaction Kinetics Impact the Robustness of Cellular Oscillations. <i>PLoS Computational Biology</i> , 2016, 12, e1005298.	3.2	16
24	An actin-dependent spindle position checkpoint ensures the asymmetric division in mouse oocytes. <i>Nature Communications</i> , 2015, 6, 7784.	12.8	8