Peter Lenart

List of Publications by Citations

22 papers	841 citations	15 h-index	27 g-index
27 ext. papers	1,006 ext. citations	7.8 avg, IF	3.92 L-index

#	Paper	IF	Citations
22	A contractile nuclear actin network drives chromosome congression in oocytes. *Nature*, **2005**, 436, 812-8	50.4	186
21	Nuclear envelope breakdown in starfish oocytes proceeds by partial NPC disassembly followed by a rapidly spreading fenestration of nuclear membranes. *Journal of Cell Biology*, **2003**, 160, 1055-68	7.3	126
20	Bayesian approach to MSD-based analysis of particle motion in live cells. *Biophysical Journal*, **2012**, 103, 616-626	2.9	90
19	Bulk cytoplasmic actin and its functions in meiosis and mitosis. *Current Biology*, **2011**, 21, R825-30	6.3	66
18	Intracellular transport by an anchored homogeneously contracting F-actin meshwork. *Current Biology*, **2011**, 21, 606-11	6.3	55
17	Nuclear envelope dynamics in oocytes: from germinal vesicle breakdown to mitosis. *Current Opinion in Cell Biology*, **2003**, 15, 88-95	9	39
16	An Arp2/3 nucleated F-actin shell fragments nuclear membranes at nuclear envelope breakdown in starfish oocytes. *Current Biology*, **2014**, 24, 1421-1428	6.3	38
15	A cdk1 gradient guides surface contraction waves in oocytes. *Nature Communications*, **2017**, 8, 849	17.4	37
14	Light microscopy of echinoderm embryos. *Methods in Cell Biology*, **2004**, 74, 371-409	1.8	37
13	Distinct mechanisms eliminate mother and daughter centrioles in meiosis of starfish oocytes. *Journal of Cell Biology*, **2016**, 212, 815-27	7.3	34
12	Cytoplasmic flows in starfish oocytes are fully determined by cortical contractions. *PLoS Computational Biology*, **2018**, 14, e1006588	5	19
11	Nuclear roles for actin. *Chromosoma*, **2015**, 124, 481-9	2.8	18
10	F-Actin nucleated on chromosomes coordinates their capture by microtubules in oocyte meiosis. *Journal of Cell Biology*, **2018**, 217, 2661-2674	7.3	17
9	Actin assembly ruptures the nuclear envelope by prying the lamina away from nuclear pores and nuclear membranes in starfish oocytes. *ELife*, **2020**, 9,	8.9	17
8	Nanoscopy reveals the layered organization of the sarcomeric H-zone and I-band complexes. *Journal of Cell Biology*, **2020**, 219,	7.3	17
7	A disassembly-driven mechanism explains F-actin-mediated chromosome transport in starfish oocytes. *ELife*, **2018**, 7,	8.9	15
6	Old knowledge and new technologies allow rapid development of model organisms. *Molecular Biology of the Cell*, **2016**, 27, 882-7	3.5	11

List of Publications

5	Live Imaging of Centriole Dynamics by Fluorescently Tagged Proteins in Starfish Oocyte Meiosis. *Methods in Molecular Biology*, **2016**, 1457, 145-66	1.4	10
4	Chromosome Segregation: Is the Spindle All About Microtubules?. *Current Biology*, **2017**, 27, R1168-R1170	6.3	5
3	Correlated light and electron microscopy of cell division in large marine oocytes, eggs, and embryos. *Methods in Cell Biology*, **2018**, 145, 293-313	1.8	2
2	Centriole foci persist in starfish oocytes despite Polo-like kinase 1 inactivation or loss of microtubule nucleation activity. *Molecular Biology of the Cell*, **2020**, 31, 873-880	3.5	1
1	Rupture of nuclear envelope in starfish oocytes proceeds by F-actin-driven segregation of pore-dense and pore-free membranes		1