

Ewa K Paluch

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

7,781
citations

109321

35
h-index

214800

47
g-index

57
all docs

57
docs citations

57
times ranked

7313
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell surface fluctuations regulate early embryonic lineage sorting. <i>Cell</i> , 2022, 185, 777-793.e20.	28.9	37
2	Interplay between mechanics and signalling in regulating cell fate. <i>Nature Reviews Molecular Cell Biology</i> , 2022, 23, 465-480.	37.0	68
3	Membrane Tension Gates ERK-Mediated Regulation of Pluripotent Cell Fate. <i>Cell Stem Cell</i> , 2021, 28, 273-284.e6.	11.1	104
4	Three-dimensional geometry controls division symmetry in stem cell colonies. <i>Journal of Cell Science</i> , 2021, 134, .	2.0	6
5	Single-cell morphometrics reveals ancestral principles of notochord development. <i>Development (Cambridge)</i> , 2021, 148, .	2.5	22
6	Extent of myosin penetration within the actin cortex regulates cell surface mechanics. <i>Nature Communications</i> , 2021, 12, 6511.	12.8	26
7	F-Actin Interactome Reveals Vimentin as a Key Regulator of Actin Organization and Cell Mechanics in Mitosis. <i>Developmental Cell</i> , 2020, 52, 210-222.e7.	7.0	70
8	Abscission Couples Cell Division to Embryonic Stem Cell Fate. <i>Developmental Cell</i> , 2020, 55, 195-208.e5.	7.0	30
9	SPIN90 associates with mDia1 and the Arp2/3 complex to regulate cortical actin organization. <i>Nature Cell Biology</i> , 2020, 22, 803-814.	10.3	48
10	Tissue Mechanics Regulate Mitotic Nuclear Dynamics during Epithelial Development. <i>Current Biology</i> , 2020, 30, 2419-2432.e4.	3.9	19
11	Of Cell Shapes and Motion: The Physical Basis of Animal Cell Migration. <i>Developmental Cell</i> , 2020, 52, 550-562.	7.0	95
12	Membrane Tension Orchestrates Rear Retraction in Matrix-Directed Cell Migration. <i>Developmental Cell</i> , 2019, 51, 460-475.e10.	7.0	112
13	Architecture shapes contractility in actomyosin networks. <i>Current Opinion in Cell Biology</i> , 2018, 50, 79-85.	5.4	119
14	Biophysics across time and space. <i>Nature Physics</i> , 2018, 14, 646-647.	16.7	2
15	The actin cortex at a glance. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	311
16	Actin cortex architecture regulates cell surface tension. <i>Nature Cell Biology</i> , 2017, 19, 689-697.	10.3	325
17	Steering cell migration by alternating blebs and actin-rich protrusions. <i>BMC Biology</i> , 2016, 14, 74.	3.8	49
18	The Actin Cortex: A Bridge between Cell Shape and Function. <i>Developmental Cell</i> , 2016, 38, 571-573.	7.0	114

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19	Focal Adhesionâ€“Independent Cell Migration. Annual Review of Cell and Developmental Biology, 2016, 32, 469-490.	9.4	270
20	Preface. Methods in Cell Biology, 2015, 125, xxv-xxvi.	1.1	0
21	Force transmission during adhesion-independent migration. Nature Cell Biology, 2015, 17, 524-529.	10.3	279
22	Mechanotransduction: use the force(s). BMC Biology, 2015, 13, 47.	3.8	183
23	After the Greeting: Realizing the Potential of Physical Models in Cell Biology. Trends in Cell Biology, 2015, 25, 711-713.	7.9	5
24	Active elastic thin shell theory for cellular deformations. New Journal of Physics, 2014, 16, 065005.	2.9	44
25	Cellular Control of Cortical Actin Nucleation. Current Biology, 2014, 24, 1628-1635.	3.9	219
26	Stresses at the Cell Surface during Animal Cell Morphogenesis. Current Biology, 2014, 24, R484-R494.	3.9	117
27	The role and regulation of blebs in cell migration. Current Opinion in Cell Biology, 2013, 25, 582-590.	5.4	295
28	Monitoring Actin Cortex Thickness in Live Cells. Biophysical Journal, 2013, 105, 570-580.	0.5	198
29	Cell cortex composition and homeostasis resolved by integrating proteomics and quantitative imaging. Cytoskeleton, 2013, 70, 741-754.	2.0	76
30	Cell mechanics control rapid transitions between blebs and lamellipodia during migration. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14434-14439.	7.1	286
31	Modeling and simulation of cellular functions. Molecular Biology of the Cell, 2012, 23, 972-972.	2.1	0
32	Cytokinesis in Animal Cells. Annual Review of Cell and Developmental Biology, 2012, 28, 29-58.	9.4	497
33	Identification and Regulation of a Molecular Module for Bleb-Based Cell Motility. Developmental Cell, 2012, 23, 210-218.	7.0	61
34	Actin cortex mechanics and cellular morphogenesis. Trends in Cell Biology, 2012, 22, 536-545.	7.9	695
35	Adhesion Functions in Cell Sorting by Mechanically Coupling the Cortices of Adhering Cells. Science, 2012, 338, 253-256.	12.6	493
36	Polar actomyosin contractility destabilizes the position of the cytokinetic furrow. Nature, 2011, 476, 462-466.	27.8	299

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37	Mechanics and Regulation of Cell Shape During the Cell Cycle. Results and Problems in Cell Differentiation, 2011, 53, 31-73.	0.7	54
38	Control of Directed Cell Migration In Vivo by Membrane-to-Cortex Attachment. PLoS Biology, 2010, 8, e1000544.	5.6	231
39	Role of cortical tension in bleb growth. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18581-18586.	7.1	478
40	Biology and Physics of Cell Shape Changes in Development. Current Biology, 2009, 19, R790-R799.	3.9	203
41	Chaos Begets Order: Asynchronous Cell Contractions Drive Epithelial Morphogenesis. Developmental Cell, 2009, 16, 4-6.	7.0	3
42	Blebs lead the way: how to migrate without lamellipodia. Nature Reviews Molecular Cell Biology, 2008, 9, 730-736.	37.0	650
43	Deformations in Actin Comets from Rocketing Beads. Biophysical Journal, 2006, 91, 3113-3122.	0.5	42
44	Dynamic modes of the cortical actomyosin gel during cell locomotion and division. Trends in Cell Biology, 2006, 16, 5-10.	7.9	127
45	Cracking up: symmetry breaking in cellular systems. Journal of Cell Biology, 2006, 175, 687-692.	5.2	54
46	Stress release drives symmetry breaking for actin-based movement. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7847-7852.	7.1	125
47	Cortical Actomyosin Breakage Triggers Shape Oscillations in Cells and Cell Fragments. Biophysical Journal, 2005, 89, 724-733.	0.5	212