

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 | Actin cortex mechanics and cellular morphogenesis. Trends in Cell Biology, 2012, 22, 536-545. | 7.9 | 695 |
| 2 | Blebs lead the way: how to migrate without lamellipodia. Nature Reviews Molecular Cell Biology, 2008, 9, 730-736. | 37.0 | 650 |
| 3 | Cytokinesis in Animal Cells. Annual Review of Cell and Developmental Biology, 2012, 28, 29-58. | 9.4 | 497 |
| 4 | Adhesion Functions in Cell Sorting by Mechanically Coupling the Cortices of Adhering Cells. Science, 2012, 338, 253-256. | 12.6 | 493 |
| 5 | 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 |
| 6 | Actin cortex architecture regulates cell surface tension. Nature Cell Biology, 2017, 19, 689-697. | 10.3 | 325 |
| 7 | The actin cortex at a glance. Journal of Cell Science, 2018, 131, . | 2.0 | 311 |
| 8 | Polar actomyosin contractility destabilizes the position of the cytokinetic furrow. Nature, 2011, 476, 462-466. | 27.8 | 299 |
| 9 | The role and regulation of blebs in cell migration. Current Opinion in Cell Biology, 2013, 25, 582-590. | 5.4 | 295 |
| 10 | 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 |
| 11 | Force transmission during adhesion-independent migration. Nature Cell Biology, 2015, 17, 524-529. | 10.3 | 279 |
| 12 | Focal Adhesionâ€Independent Cell Migration. Annual Review of Cell and Developmental Biology, 2016, 32, 469-490. | 9.4 | 270 |
| 13 | Control of Directed Cell Migration In Vivo by Membrane-to-Cortex Attachment. PLoS Biology, 2010, 8, e1000544. | 5.6 | 231 |
| 14 | Cellular Control of Cortical Actin Nucleation. Current Biology, 2014, 24, 1628-1635. | 3.9 | 219 |
| 15 | Cortical Actomyosin Breakage Triggers Shape Oscillations in Cells and Cell Fragments. Biophysical Journal, 2005, 89, 724-733. | 0.5 | 212 |
| 16 | Biology and Physics of Cell Shape Changes in Development. Current Biology, 2009, 19, R790-R799. | 3.9 | 203 |
| 17 | Monitoring Actin Cortex Thickness in Live Cells. Biophysical Journal, 2013, 105, 570-580. | 0.5 | 198 |
| 18 | Mechanotransduction: use the force(s). BMC Biology, 2015, 13, 47. | 3.8 | 183 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Dynamic modes of the cortical actomyosin gel during cell locomotion and division. Trends in Cell Biology, 2006, 16, 5-10. | 7.9 | 127 |
| 20 | 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 |
| 21 | Architecture shapes contractility in actomyosin networks. Current Opinion in Cell Biology, 2018, 50, 79-85. | 5.4 | 119 |
| 22 | Stresses at the Cell Surface during Animal Cell Morphogenesis. Current Biology, 2014, 24, R484-R494. | 3.9 | 117 |
| 23 | The Actin Cortex: A Bridge between Cell Shape and Function. Developmental Cell, 2016, 38, 571-573. | 7.0 | 114 |
| 24 | Membrane Tension Orchestrates Rear Retraction in Matrix-Directed Cell Migration. Developmental Cell, 2019, 51, 460-475.e10. | 7.0 | 112 |
| 25 | Membrane Tension Gates ERK-Mediated Regulation of Pluripotent Cell Fate. Cell Stem Cell, 2021, 28, 273-284.e6. | 11.1 | 104 |
| 26 | Of Cell Shapes and Motion: The Physical Basis of Animal Cell Migration. Developmental Cell, 2020, 52, 550-562. | 7.0 | 95 |
| 27 | Cell cortex composition and homeostasis resolved by integrating proteomics and quantitative imaging. Cytoskeleton, 2013, 70, 741-754. | 2.0 | 76 |
| 28 | F-Actin Interactome Reveals Vimentin as a Key Regulator of Actin Organization and Cell Mechanics in Mitosis. Developmental Cell, 2020, 52, 210-222.e7. | 7.0 | 70 |
| 29 | Interplay between mechanics and signalling in regulating cell fate. Nature Reviews Molecular Cell Biology, 2022, 23, 465-480. | 37.0 | 68 |
| 30 | Identification and Regulation of a Molecular Module for Bleb-Based Cell Motility. Developmental Cell, 2012, 23, 210-218. | 7.0 | 61 |
| 31 | Cracking up: symmetry breaking in cellular systems. Journal of Cell Biology, 2006, 175, 687-692. | 5.2 | 54 |
| 32 | Mechanics and Regulation of Cell Shape During the Cell Cycle. Results and Problems in Cell Differentiation, 2011, 53, 31-73. | 0.7 | 54 |
| 33 | Steering cell migration by alternating blebs and actin-rich protrusions. BMC Biology, 2016, 14, 74. | 3.8 | 49 |
| 34 | SPIN90 associates with mDia1 and the Arp2/3 complex to regulate cortical actin organization. Nature Cell Biology, 2020, 22, 803-814. | 10.3 | 48 |
| 35 | Active elastic thin shell theory for cellular deformations. New Journal of Physics, 2014, 16, 065005. | 2.9 | 44 |
| 36 | Deformations in Actin Comets from Rocketing Beads. Biophysical Journal, 2006, 91, 3113-3122. | 0.5 | 42 |

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|----|---|------|-----------|
| 37 | Cell surface fluctuations regulate early embryonic lineage sorting. <i>Cell</i> , 2022, 185, 777-793.e20. | 28.9 | 37 |
| 38 | Abscission Couples Cell Division to Embryonic Stem Cell Fate. <i>Developmental Cell</i> , 2020, 55, 195-208.e5. | 7.0 | 30 |
| 39 | Extent of myosin penetration within the actin cortex regulates cell surface mechanics. <i>Nature Communications</i> , 2021, 12, 6511. | 12.8 | 26 |
| 40 | Single-cell morphometrics reveals ancestral principles of notochord development. <i>Development (Cambridge)</i> , 2021, 148, . | 2.5 | 22 |
| 41 | Tissue Mechanics Regulate Mitotic Nuclear Dynamics during Epithelial Development. <i>Current Biology</i> , 2020, 30, 2419-2432.e4. | 3.9 | 19 |
| 42 | Three-dimensional geometry controls division symmetry in stem cell colonies. <i>Journal of Cell Science</i> , 2021, 134, . | 2.0 | 6 |
| 43 | After the Greeting: Realizing the Potential of Physical Models in Cell Biology. <i>Trends in Cell Biology</i> , 2015, 25, 711-713. | 7.9 | 5 |
| 44 | Chaos Begets Order: Asynchronous Cell Contractions Drive Epithelial Morphogenesis. <i>Developmental Cell</i> , 2009, 16, 4-6. | 7.0 | 3 |
| 45 | Biophysics across time and space. <i>Nature Physics</i> , 2018, 14, 646-647. | 16.7 | 2 |
| 46 | Modeling and simulation of cellular functions. <i>Molecular Biology of the Cell</i> , 2012, 23, 972-972. | 2.1 | 0 |
| 47 | Preface. <i>Methods in Cell Biology</i> , 2015, 125, xxv-xxvi. | 1.1 | 0 |