

# Nicolas Minc

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

3,217  
citations

201674

27  
h-index

168389

53  
g-index

65  
all docs

65  
docs citations

65  
times ranked

3588  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell division geometries as central organizers of early embryo development. <i>Seminars in Cell and Developmental Biology</i> , 2022, 130, 3-11.	5.0	8
2	Cells under pressure: how yeast cells respond to mechanical forces. <i>Trends in Microbiology</i> , 2022, 30, 495-510.	7.7	26
3	Contribution of cytoplasm viscoelastic properties to mitotic spindle positioning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	28
4	Roadmap for the multiscale coupling of biochemical and mechanical signals during development. <i>Physical Biology</i> , 2021, 18, 041501.	1.8	29
5	Detection of surface forces by the cell-wall mechanosensor Wsc1 in yeast. <i>Developmental Cell</i> , 2021, 56, 2856-2870.e7.	7.0	15
6	Bioelectric signaling and the control of cardiac cell identity in response to mechanical forces. <i>Science</i> , 2021, 374, 351-354.	12.6	40
7	InÂVitro Reconstitution of Dynein Force Exertion in a Bulk Viscous Medium. <i>Current Biology</i> , 2020, 30, 4534-4540.e7.	3.9	11
8	An image analysis method to survey the dynamics of polar protein abundance in the regulation of tip growth. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	5
9	The Perinuclear ER Scales Nuclear Size Independently of Cell Size in Early Embryos. <i>Developmental Cell</i> , 2020, 54, 395-409.e7.	7.0	40
10	Cytoskeleton Force Exertion in Bulk Cytoplasm. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 69.	3.7	28
11	Systematic mapping of cell wall mechanics in the regulation of cell morphogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13833-13838.	7.1	24
12	Scaling properties of centering forces. <i>Europhysics Letters</i> , 2019, 125, 48001.	2.0	3
13	Modeling Embryonic Cleavage Patterns. <i>Methods in Molecular Biology</i> , 2019, 1920, 393-406.	0.9	2
14	Asymmetric division through a reduction of microtubule centering forces. <i>Journal of Cell Biology</i> , 2019, 218, 771-782.	5.2	28
15	Mechanosensation Dynamically Coordinates Polar Growth and Cell Wall Assembly to Promote Cell Survival. <i>Developmental Cell</i> , 2018, 45, 170-182.e7.	7.0	60
16	How cells sense their own shape “ mechanisms to probe cell geometry and their implications in cellular organization and function. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	64
17	A Positive Feedback between Growth and Polarity Provides Directional Persistency and Flexibility to the Process of Tip Growth. <i>Current Biology</i> , 2018, 28, 3342-3351.e3.	3.9	28
18	Physical forces determining the persistency and centring precision of microtubule asters. <i>Nature Physics</i> , 2018, 14, 848-854.	16.7	51

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19	Microtubule Dynamics Scale with Cell Size to Set Spindle Length and Assembly Timing. <i>Developmental Cell</i> , 2018, 45, 496-511.e6.	7.0	76
20	Contractile forces at tricellular contacts modulate epithelial organization and monolayer integrity. <i>Nature Communications</i> , 2017, 8, 13998.	12.8	68
21	Gradients of phosphatidylserine contribute to plasma membrane charge localization and cell polarity in fission yeast. <i>Molecular Biology of the Cell</i> , 2017, 28, 210-220.	2.1	30
22	Eml1 loss impairs apical progenitor spindle length and soma shape in the developing cerebral cortex. <i>Scientific Reports</i> , 2017, 7, 17308.	3.3	26
23	The invariant cleavage pattern displayed by ascidian embryos depends on spindle positioning along the cell's longest axis in the apical plane and relies on asynchronous cell divisions. <i>ELife</i> , 2017, 6, .	6.0	29
24	Generic Theoretical Models to Predict Division Patterns of Cleaving Embryos. <i>Developmental Cell</i> , 2016, 39, 667-682.	7.0	59
25	Shapeâ€motion relationships of centering microtubule asters. <i>Journal of Cell Biology</i> , 2016, 212, 777-787.	5.2	68
26	Epithelial tricellular junctions act as interphase cell shape sensors to orient mitosis. <i>Nature</i> , 2016, 530, 495-498.	27.8	217
27	Measurement and manipulation of cell size parameters in fission yeast. <i>Methods in Cell Biology</i> , 2015, 125, 423-436.	1.1	19
28	Actin-Based Transport Adapts Polarity Domain Size to Local Cellular Curvature. <i>Current Biology</i> , 2015, 25, 2677-2683.	3.9	21
29	Mechanics and morphogenesis of fission yeast cells. <i>Current Opinion in Microbiology</i> , 2015, 28, 36-45.	5.1	34
30	Magnetic Field-Based Lab-on-Chip Devices. , 2015, , 1681-1689.		1
31	Dissecting the Molecular Mechanisms of Electrotactic Effects. <i>Advances in Wound Care</i> , 2014, 3, 139-148.	5.1	6
32	Electrochemical Regulation of Budding Yeast Polarity. <i>PLoS Biology</i> , 2014, 12, e1002029.	5.6	23
33	Symmetry Breaking in Spore Germination Relies on an Interplay between Polar Cap Stability and Spore Wall Mechanics. <i>Developmental Cell</i> , 2014, 28, 534-546.	7.0	80
34	Microfabricated Chambers as Force Sensors for Probing Forces of Fungal Growth. <i>Methods in Cell Biology</i> , 2014, 120, 215-226.	1.1	3
35	Electrochemical Control of Cell and Tissue Polarity. <i>Annual Review of Cell and Developmental Biology</i> , 2014, 30, 317-336.	9.4	69
36	Manipulating Cell Shape by Placing Cells into Micro-fabricated Chambers. <i>Methods in Molecular Biology</i> , 2014, 1136, 281-290.	0.9	10

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37	Magnetic Field-Based Lab-on-Chip Devices. , 2014, , 1-10.		0
38	Anthrax receptors position the spindle. Nature Cell Biology, 2013, 15, 11-13.	10.3	1
39	Tension-oriented cell divisions limit anisotropic tissue tension in epithelial spreading during zebrafish epiboly. Nature Cell Biology, 2013, 15, 1405-1414.	10.3	226
40	Contributions of Turgor Pressure, the Contractile Ring, and Septum Assembly to Forces in Cytokinesis in Fission Yeast. Current Biology, 2012, 22, 1601-1608.	3.9	130
41	Electrochemical regulation of cell polarity and the cytoskeleton. Cytoskeleton, 2012, 69, 601-612.	2.0	20
42	Predicting division plane position and orientation. Trends in Cell Biology, 2012, 22, 193-200.	7.9	97
43	Influence of Cell Geometry on Division-Plane Positioning. Cell, 2011, 144, 414-426.	28.9	338
44	Electrical Control of Cell Polarization in the Fission Yeast Schizosaccharomyces pombe. Current Biology, 2010, 20, 710-716.	3.9	74
45	Microfluidic sorting and multimodal typing of cancer cells in self-assembled magnetic arrays. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14524-14529.	7.1	296
46	Establishing New Sites of Polarization by Microtubules. Current Biology, 2009, 19, 83-94.	3.9	82
47	Mechanical Forces of Fission Yeast Growth. Current Biology, 2009, 19, 1096-1101.	3.9	156
48	Controlled proteolysis of normal and pathological prion protein in a microfluidic chip. Lab on A Chip, 2008, 8, 294.	6.0	47
49	Autoassemblage de colloïdes magnétiques sur un réseau de plots en nickel: Application à l'electrophorèse de longs ADN. Houille Blanche, 2007, 93, 34-38.	0.3	1
50	Functionalized magnetic micro- and nanoparticles: Optimization and application to 1/4-chip tryptic digestion. Electrophoresis, 2006, 27, 1811-1824.	2.4	67
51	In-capillary non-covalent labeling of insulin and one gastrointestinal peptide for their analyses by capillary electrophoresis with laser-induced fluorescence detection. Journal of Chromatography A, 2005, 1087, 203-209.	3.7	11
52	Motion of single long DNA molecules through arrays of magnetic columns. Electrophoresis, 2005, 26, 362-375.	2.4	39
53	Non-Markovian Transport of DNA in Microfluidic Post Arrays. Physical Review Letters, 2005, 94, 198105.	7.8	30
54	Use of self assembled magnetic beads for on-chip protein digestion. Lab on A Chip, 2005, 5, 935.	6.0	114

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55	Utilization of newly developed immobilized enzyme reactors for preparation and study of immunoglobulin G fragments. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004, 808, 15-24.	2.3	38
56	Quantitative Microfluidic Separation of DNA in Self-Assembled Magnetic Matrixes. <i>Analytical Chemistry</i> , 2004, 76, 3770-3776.	6.5	103