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List of Publications by Year in descending order

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78
papers

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citations

126907

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docs citations

91
times ranked

6991
citing authors

#	ARTICLE	IF	CITATIONS
1	Sculpting tissues by phase transitions. <i>Nature Communications</i> , 2022, 13, 664.	12.8	37
2	Cell-state transitions and collective cell movement generate an endoderm-like region in gastruloids. <i>ELife</i> , 2022, 11, .	6.0	32
3	Cell Junction Mechanics beyond the Bounds of Adhesion and Tension. <i>Developmental Cell</i> , 2021, 56, 202-212.	7.0	33
4	Roadmap for the multiscale coupling of biochemical and mechanical signals during development. <i>Physical Biology</i> , 2021, 18, 041501.	1.8	29
5	Sculpting with stem cells: how models of embryo development take shape. <i>Development (Cambridge)</i> , 2021, 148, .	2.5	28
6	Wnt ligands regulate the asymmetric divisions of neuronal progenitors in <i>C. elegans</i> embryos. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	12
7	Genetic induction and mechanochemical propagation of a morphogenetic wave. <i>Nature</i> , 2019, 572, 467-473.	27.8	124
8	Experimental validation of force inference in epithelia from cell to tissue scale. <i>Scientific Reports</i> , 2019, 9, 14647.	3.3	28
9	The elmo- <i>mbc</i> complex and <i>rhogap19d</i> couple Rho family GTPases during mesenchymal-to-epithelial-like transitions. <i>Development (Cambridge)</i> , 2018, , .	2.5	9
10	Distinct contributions of tensile and shear stress on E-cadherin levels during morphogenesis. <i>Nature Communications</i> , 2018, 9, 5021.	12.8	100
11	Probing Cell Mechanics with Bead-Free Optical Tweezers in the <i>Drosophila</i> Embryo. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	3
12	Tissue "melting"™ sculpts embryo. <i>Nature</i> , 2018, 561, 315-316.	27.8	6
13	Polarization-resolved microscopy reveals a muscle myosin motor-independent mechanism of molecular actin ordering during sarcomere maturation. <i>PLoS Biology</i> , 2018, 16, e2004718.	5.6	42
14	Viscoelastic Dissipation Stabilizes Cell Shape Changes during Tissue Morphogenesis. <i>Current Biology</i> , 2017, 27, 3132-3142.e4.	3.9	120
15	Patterned cortical tension mediated by N-cadherin controls cell geometric order in the <i>Drosophila</i> eye. <i>ELife</i> , 2017, 6, .	6.0	46
16	Boron Difluoride Curcuminoid Fluorophores with Enhanced Two-Photon Excited Fluorescence Emission and Versatile Living-Cell Imaging Properties. <i>Chemistry - A European Journal</i> , 2016, 22, 5219-5232.	3.3	77
17	Laser Ablation to Probe the Epithelial Mechanics in <i>Drosophila</i> . <i>Methods in Molecular Biology</i> , 2016, 1478, 241-251.	0.9	15
18	Measuring forces and stresses <i>in situ</i> in living tissues. <i>Development (Cambridge)</i> , 2016, 143, 186-196.	2.5	163

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19	Borondifluoride complexes of hemicurcuminoids as bio-inspired push-pull dyes for bioimaging. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 1311-1324.	2.8	40
20	Molecular clustering in the cell: from weak interactions to optimized functional architectures. <i>Current Opinion in Cell Biology</i> , 2016, 38, 18-23.	5.4	18
21	Calcium Spikes in Epithelium: study on <i>Drosophila</i> early embryos. <i>Scientific Reports</i> , 2015, 5, 11379.	3.3	16
22	Superresolution measurements in vivo: Imaging <i>Drosophila</i> embryo by photoactivated localization microscopy. <i>Methods in Cell Biology</i> , 2015, 125, 119-142.	1.1	4
23	Direct laser manipulation reveals the mechanics of cell contacts in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1416-1421.	7.1	199
24	Local and tissue-scale forces drive oriented junction growth during tissue extension. <i>Nature Cell Biology</i> , 2015, 17, 1247-1258.	10.3	249
25	Membrane microdomains: from seeing to understanding. <i>Frontiers in Plant Science</i> , 2014, 5, 18.	3.6	31
26	Clustering of low-valence particles: Structure and kinetics. <i>Physical Review E</i> , 2014, 90, 022301.	2.1	6
27	Setting Up a Simple Light Sheet Microscope for <i>In Toto</i> Imaging of <i>C. elegans</i> Development. <i>Journal of Visualized Experiments</i> , 2014, , .	0.3	13
28	Principles of E-Cadherin Supramolecular Organization <i>In Vivo</i> . <i>Current Biology</i> , 2013, 23, 2197-2207.	3.9	165
29	Bond Flexibility and Low Valence Promote Finite Clusters of Self-Aggregating Particles. <i>Physical Review Letters</i> , 2012, 109, 078101.	7.8	12
30	Calcium signaling in developing embryos: Focus on the regulation of cell shape changes and collective movements. <i>Seminars in Cell and Developmental Biology</i> , 2012, 23, 298-307.	5.0	33
31	FCS Diffusion Laws in Two-Phase Lipid Membranes: Determination of Domain Mean Size by Experiments and Monte Carlo Simulations. <i>Biophysical Journal</i> , 2011, 100, 1242-1251.	0.5	40
32	Cortical Forces in Cell Shape Changes and Tissue Morphogenesis. <i>Current Topics in Developmental Biology</i> , 2011, 95, 93-144.	2.2	80
33	Force Generation, Transmission, and Integration during Cell and Tissue Morphogenesis. <i>Annual Review of Cell and Developmental Biology</i> , 2011, 27, 157-184.	9.4	483
34	Planar polarized actomyosin contractile flows control epithelial junction remodelling. <i>Nature</i> , 2010, 468, 1110-1114.	27.8	577
35	Probing the mechanical properties of <i>Drosophila</i> embryo epithelial cells in vivo by laser nanodissection. , 2009, , .		0
36	Probing cell-surface dynamics and mechanics at different scales. <i>Histochemistry and Cell Biology</i> , 2009, 132, 247-252.	1.7	2

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37	Physics puzzles on membrane domains posed by cell biology. <i>Soft Matter</i> , 2009, 5, 2841.	2.7	45
38	Biophotonics applications of nanometric apertures. <i>International Journal of Materials and Product Technology</i> , 2009, 34, 488.	0.2	5
39	Fluorescence fluctuations analysis in nanoapertures: physical concepts and biological applications. <i>Histochemistry and Cell Biology</i> , 2008, 130, 795-805.	1.7	17
40	A two-tiered mechanism for stabilization and immobilization of E-cadherin. <i>Nature</i> , 2008, 453, 751-756.	27.8	365
41	Nature and anisotropy of cortical forces orienting <i>Drosophila</i> tissue morphogenesis. <i>Nature Cell Biology</i> , 2008, 10, 1401-1410.	10.3	535
42	Raft nanodomains contribute to Akt/PKB plasma membrane recruitment and activation. <i>Nature Chemical Biology</i> , 2008, 4, 538-547.	8.0	270
43	Polysialylation Increases Lateral Diffusion of Neural Cell Adhesion Molecule in the Cell Membrane. <i>Journal of Biological Chemistry</i> , 2007, 282, 26266-26274.	3.4	23
44	Single-scattering theory of light diffraction by a circular subwavelength aperture in a finitely conducting screen. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007, 24, 339.	1.5	19
45	Diffusion Analysis within Single Nanometric Apertures Reveals the Ultrafine Cell Membrane Organization. <i>Biophysical Journal</i> , 2007, 92, 913-919.	0.5	154
46	Radiative and Nonradiative Photokinetics Alteration Inside a Single Metallic Nanometric Aperture. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11469-11474.	3.1	23
47	Cell surface mechanics and the control of cell shape, tissue patterns and morphogenesis. <i>Nature Reviews Molecular Cell Biology</i> , 2007, 8, 633-644.	37.0	1,054
48	Coherent anti-Stokes Raman scattering microscopy (CARS): Instrumentation and applications. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 571, 177-181.	1.6	27
49	Field enhancement in single subwavelength apertures. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006, 23, 2342.	1.5	49
50	Dual-color fluorescence cross-correlation spectroscopy in a single nanoaperture : towards rapid multicomponent screening at high concentrations. <i>Optics Express</i> , 2006, 14, 12206.	3.4	47
51	Confined diffusion in tubular structures analyzed by fluorescence correlation spectroscopy on a mirror. <i>Applied Optics</i> , 2006, 45, 4497.	2.1	9
52	Refractive effects in coherent anti-Stokes Raman scattering microscopy. <i>Applied Optics</i> , 2006, 45, 7005.	2.1	32
53	Dynamics in the plasma membrane: how to combine fluidity and order. <i>EMBO Journal</i> , 2006, 25, 3446-3457.	7.8	259
54	Dynamic molecular confinement in the plasma membrane by microdomains and the cytoskeleton meshwork. <i>EMBO Journal</i> , 2006, 25, 3245-3256.	7.8	443

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55	Raman scattering and fluorescence emission in a single nanoaperture: Optimizing the local intensity enhancement. <i>Optics Communications</i> , 2006, 267, 224-228.	2.1	24
56	Single-Fluorophore Diffusion in a Lipid Membrane over a Subwavelength Aperture. <i>Journal of Biological Physics</i> , 2006, 32, SN1-SN4.	1.5	37
57	Enhanced Raman Scattering in a 10 Attoliter Nanohole. , 2006, , .		0
58	Observation of the interferences between the emitted beams in a 4Pi microscope by partial coherence interferometry. <i>Applied Physics Letters</i> , 2005, 87, 181103.	3.3	0
59	Enhancement of Single-Molecule Fluorescence Detection in Subwavelength Apertures. <i>Physical Review Letters</i> , 2005, 95, 117401.	7.8	211
60	Surface plasmon excitation on a single subwavelength hole in a metallic sheet. <i>Applied Optics</i> , 2005, 44, 2332.	2.1	80
61	Single molecule fluorescence in rectangular nano-apertures. <i>Optics Express</i> , 2005, 13, 7035.	3.4	68
62	Fluorescence Correlation Spectroscopy Diffusion Laws to Probe the Submicron Cell Membrane Organization. <i>Biophysical Journal</i> , 2005, 89, 4029-4042.	0.5	407
63	Vibrational imaging by coherent anti-stokes Raman scattering (CARS) microscopy. , 2004, 5463, 133.		4
64	Reducing and shaping the fluorescence detection volume for single bio-molecules analysis: the assets of nanophotonic structures. , 2004, , .		0
65	Axial localization of luminophores by partial coherence interferometry. , 2004, , .		1
66	Fluorescence correlation spectroscopy to determine diffusion laws: application to live cell membranes. , 2004, , .		19
67	Subwavelength patterns and high detection efficiency in fluorescence correlation spectroscopy using photonic structures. <i>Applied Physics Letters</i> , 2002, 80, 4106-4108.	3.3	26
68	Two-Dimensional Crystallization of a Histidine-Tagged Protein on Monolayers of Fluidity-Enhanced Ni ²⁺ -Chelating Lipids. <i>Langmuir</i> , 2002, 18, 9502-9512.	3.5	27
69	Pathways and Intermediates in Forced Unfolding of Spectrin Repeats. <i>Structure</i> , 2002, 10, 1085-1096.	3.3	75
70	Flow Profiles and Directionality in Microcapillaries Measured by Fluorescence Correlation Spectroscopy. <i>Single Molecules</i> , 2002, 3, 194-200.	0.9	32
71	Multiple sensor stabilization system for local probe microscopes. <i>Review of Scientific Instruments</i> , 2001, 72, 142-149.	1.3	18
72	Synchrotron Radiation Diffraction from Two-Dimensional Protein Crystals at the Air/Water Interface. <i>Biophysical Journal</i> , 2000, 79, 496-500.	0.5	35

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73	States and transitions during forced unfolding of a single spectrin repeat. FEBS Letters, 2000, 476, 124-128.	2.8	107
74	Growth of Two-Dimensional Solids in Alcohol Monolayers in the Presence of Soluble Amphiphilic Molecules. Langmuir, 2000, 16, 2306-2310.	3.5	5
75	Surface-Induced Polymerization of Actin. Biophysical Journal, 1999, 76, 1580-1590.	0.5	43
76	X-ray grazing incidence diffraction on monolayers at the surface of water. Current Opinion in Colloid and Interface Science, 1998, 3, 321-326.	7.4	19
77	Characterization of the Growth of 2D Protein Crystals on a Lipid Monolayer by Ellipsometry and Rigidity Measurements Coupled to Electron Microscopy. Biophysical Journal, 1998, 74, 2649-2657.	0.5	76
78	Growth morphologies during 2D solidification of Langmuir monolayers limited by both surface and bulk diffusion. Europhysics Letters, 1997, 38, 301-306.	2.0	3