

Emmanuel Farge

List of Publications by Year in descending order

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33
papers

3,230
citations

279487

23
h-index

414034

32
g-index

57
all docs

57
docs citations

57
times ranked

3625
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical Induction of Twist in the Drosophila Foregut/Stomodaeal Primordium. <i>Current Biology</i> , 2003, 13, 1365-1377.	1.8	474
2	Tissue Deformation Modulates Twist Expression to Determine Anterior Midgut Differentiation in Drosophila Embryos. <i>Developmental Cell</i> , 2008, 15, 470-477.	3.1	306
3	Mechanical induction of the tumorigenic β -catenin pathway by tumour growth pressure. <i>Nature</i> , 2015, 523, 92-95.	13.7	288
4	In vivo modulation of morphogenetic movements in Drosophila embryos with femtosecond laser pulses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 1047-1052.	3.3	243
5	Mechanotransduction in tumor progression: The dark side of the force. <i>Journal of Cell Biology</i> , 2018, 217, 1571-1587.	2.3	225
6	Mechanical Signals Trigger Myosin II Redistribution and Mesoderm Invagination in <i>Drosophila</i> Embryos. <i>Science Signaling</i> , 2009, 2, ra16.	1.6	198
7	Cooperation of polarized cell intercalations drives convergence and extension of presomitic mesoderm during zebrafish gastrulation. <i>Journal of Cell Biology</i> , 2008, 180, 221-232.	2.3	168
8	Evolutionary conservation of early mesoderm specification by mechanotransduction in Bilateria. <i>Nature Communications</i> , 2013, 4, 2821.	5.8	160
9	Enhancement of endocytosis due to aminophospholipid transport across the plasma membrane of living cells. <i>American Journal of Physiology - Cell Physiology</i> , 1999, 276, C725-C733.	2.1	128
10	Mechanotransduction in Development. <i>Current Topics in Developmental Biology</i> , 2011, 95, 243-265.	1.0	110
11	Endocytosis Switch Controlled by Transmembrane Osmotic Pressure and Phospholipid Number Asymmetry. <i>Biophysical Journal</i> , 2000, 78, 3036-3047.	0.2	105
12	Interplay of mechanical deformation and patterned gene expression in developing embryos. <i>Current Opinion in Genetics and Development</i> , 2004, 14, 367-374.	1.5	101
13	Dynamic scattering from semiflexible polymers. <i>Macromolecules</i> , 1993, 26, 5041-5044.	2.2	98
14	Mechanical factors activate β -catenin-dependent oncogene expression in APC ^{1638N/+} mouse colon. <i>HFSP Journal</i> , 2008, 2, 286-294.	2.5	74
15	C ₂ C ₁₂ myoblast/osteoblast transdifferentiation steps enhanced by epigenetic inhibition of BMP2 endocytosis. <i>American Journal of Physiology - Cell Physiology</i> , 2002, 283, C235-C243.	2.1	66
16	Mechanotransductive cascade of Myo-II-dependent mesoderm and endoderm invaginations in embryo gastrulation. <i>Nature Communications</i> , 2017, 8, 13883.	5.8	64
17	The major β -catenin/E-cadherin junctional binding site is a primary molecular mechano-transducer of differentiation in vivo. <i>ELife</i> , 2018, 7, .	2.8	62
18	Mechanotransduction's Impact on Animal Development, Evolution, and Tumorigenesis. <i>Annual Review of Cell and Developmental Biology</i> , 2015, 31, 373-397.	4.0	58

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19	Velocimetric third-harmonic generation microscopy: μ m-scale quantification of morphogenetic movements in unstained embryos. <i>Optics Letters</i> , 2004, 29, 2881.	1.7	52
20	Hydrodynamic simulation of multicellular embryo invagination. <i>Physical Biology</i> , 2008, 5, 015005.	0.8	49
21	Clathrin-Dependent and Clathrin-Independent Endocytosis are Differentially Sensitive to Insertion of Poly (Ethylene Glycol)-Derivatized Cholesterol in the Plasma Membrane. <i>Traffic</i> , 2001, 2, 501-512.	1.3	45
22	Size-dependent response of liposomes to phospholipid transmembrane redistribution: from shape change to induced tension. <i>The Journal of Physical Chemistry</i> , 1993, 97, 2958-2961.	2.9	28
23	Multiplexed two-photon microscopy of dynamic biological samples with shaped broadband pulses. <i>Optics Express</i> , 2009, 17, 12741.	1.7	24
24	Is mechano-sensitive expression of twist involved in mesoderm formation?. <i>Biology of the Cell</i> , 2004, 96, 471-477.	0.7	23
25	Femtosecond pulse-induced microprocessing of live <i>Drosophila</i> embryos. <i>Medical Laser Application: International Journal for Laser Treatment and Research</i> , 2005, 20, 207-216.	0.4	18
26	Mechanical Induction in Embryonic Development and Tumor Growth: Integrative Cues Through Molecular to Multicellular Interplay and Evolutionary Perspectives. <i>Methods in Cell Biology</i> , 2010, 98, 295-321.	0.5	18
27	Trans-scale mechanotransductive cascade of biochemical and biomechanical patterning in embryonic development: the light side of the force. <i>Current Opinion in Cell Biology</i> , 2018, 55, 111-118.	2.6	18
28	Mechanotransduction in mechanically coupled pulsating cells: transition to collective constriction and mesoderm invagination simulation. <i>Physical Biology</i> , 2011, 8, 066007.	0.8	15
29	Ret kinase-mediated mechanical induction of colon stem cells by tumor growth pressure stimulates cancer progression in vivo. <i>Communications Biology</i> , 2022, 5, 137.	2.0	4
30	Mechano-sensing in Embryonic Biochemical and Morphologic Patterning: Evolutionary Perspectives in the Emergence of Primary Organisms. <i>Biological Theory</i> , 2013, 8, 232-244.	0.8	3
31	Experimental approaches in mechanotransduction: From molecules to pathology. <i>Methods</i> , 2016, 94, 1-3.	1.9	2
32	In vivo microdissection and live embryo imaging by two-photon microscopy to study <i>Drosophila melanogaster</i> early development. , 2004, 5463, 13.		1
33	In vivo analysis of <i>Drosophila</i> embryo developmental dynamics by femtosecond pulse-induced ablation and multimodal nonlinear microscopy. , 2005, 5700, 256.		0