

Frank Julicher

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

290
papers

23,431
citations

79
h-index

148
g-index

361
ext. papers

28,248
ext. citations

8.1
avg, IF

7.26
L-index

#	Paper	IF	Citations
290	Modeling molecular motors. <i>Reviews of Modern Physics</i> , 1997 , 69, 1269-1282	40.5	1481
289	Germline P granules are liquid droplets that localize by controlled dissolution/condensation. <i>Science</i> , 2009 , 324, 1729-32	33.3	1476
288	Liquid-liquid phase separation in biology. <i>Annual Review of Cell and Developmental Biology</i> , 2014 , 30, 39-58	12.6	1383
287	The influence of cell mechanics, cell-cell interactions, and proliferation on epithelial packing. <i>Current Biology</i> , 2007 , 17, 2095-104	6.3	762
286	Cell flow reorients the axis of planar polarity in the wing epithelium of <i>Drosophila</i> . <i>Cell</i> , 2010 , 142, 773-866	6.2	500
285	Asters, vortices, and rotating spirals in active gels of polar filaments. <i>Physical Review Letters</i> , 2004 , 92, 078101	7.4	417
284	Active gel physics. <i>Nature Physics</i> , 2015 , 11, 111-117	16.2	384
283	Generic theory of active polar gels: a paradigm for cytoskeletal dynamics. <i>European Physical Journal E</i> , 2005 , 16, 5-16	1.5	381
282	Adhesion functions in cell sorting by mechanically coupling the cortices of adhering cells. <i>Science</i> , 2012 , 338, 253-6	33.3	358
281	Anisotropies in cortical tension reveal the physical basis of polarizing cortical flows. <i>Nature</i> , 2010 , 467, 617-21	50.4	353
280	Formation and interaction of membrane tubes. <i>Physical Review Letters</i> , 2002 , 88, 238101	7.4	350
279	Experimental and theoretical study of mitotic spindle orientation. <i>Nature</i> , 2007 , 447, 493-6	50.4	319
278	Auditory sensitivity provided by self-tuned critical oscillations of hair cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 3183-8	11.5	299
277	Kinetics of morphogen gradient formation. <i>Science</i> , 2007 , 315, 521-5	33.3	296
276	Active behavior of the Cytoskeleton. <i>Physics Reports</i> , 2007 , 449, 3-28	27.7	295
275	Cortical dynein controls microtubule dynamics to generate pulling forces that position microtubule asters. <i>Cell</i> , 2012 , 148, 502-14	56.2	288
274	Fluidization of tissues by cell division and apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 20863-8	11.5	281

273	Cooperative molecular motors. <i>Physical Review Letters</i> , 1995 , 75, 2618-2621	7.4	277
272	Domain-induced budding of vesicles. <i>Physical Review Letters</i> , 1993 , 70, 2964-2967	7.4	277
271	Dynamics of Dpp signaling and proliferation control. <i>Science</i> , 2011 , 331, 1154-9	33.3	256
270	Increased cell bond tension governs cell sorting at the <i>Drosophila</i> anteroposterior compartment boundary. <i>Current Biology</i> , 2009 , 19, 1950-5	6.3	236
269	Shape transformations of vesicles with intramembrane domains. <i>Physical Review E</i> , 1996 , 53, 2670-2683	2.4	236
268	Calibration of optical tweezers with positional detection in the back focal plane. <i>Review of Scientific Instruments</i> , 2006 , 77, 103101	1.7	234
267	How molecular motors shape the flagellar beat. <i>HFSP Journal</i> , 2007 , 1, 192-208		227
266	Energy transduction of isothermal ratchets: generic aspects and specific examples close to and far from equilibrium. <i>Physical Review E</i> , 1999 , 60, 2127-40	2.4	213
265	Polar Positioning of Phase-Separated Liquid Compartments in Cells Regulated by an mRNA Competition Mechanism. <i>Cell</i> , 2016 , 166, 1572-1584.e16	56.2	206
264	Interplay of cell dynamics and epithelial tension during morphogenesis of the <i>Drosophila</i> pupal wing. <i>ELife</i> , 2015 , 4, e07090	8.9	192
263	High-precision tracking of sperm swimming fine structure provides strong test of resistive force theory. <i>Journal of Experimental Biology</i> , 2010 , 213, 1226-34	3	190
262	Spontaneous Oscillations of Collective Molecular Motors. <i>Physical Review Letters</i> , 1997 , 78, 4510-4513	7.4	188
261	Growth and division of active droplets provides a model for protocells. <i>Nature Physics</i> , 2017 , 13, 408-413	16.2	182
260	Comparison of a hair bundle's spontaneous oscillations with its response to mechanical stimulation reveals the underlying active process. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 14380-5	11.5	180
259	The remarkable cochlear amplifier. <i>Hearing Research</i> , 2010 , 266, 1-17	3.9	165
258	Hydrodynamic flow patterns and synchronization of beating cilia. <i>Physical Review Letters</i> , 2006 , 96, 058102	7.4	165
257	Self-Organized Beating and Swimming of Internally Driven Filaments. <i>Physical Review Letters</i> , 1999 , 82, 1590-1593	7.4	164
256	Generic aspects of axonemal beating. <i>New Journal of Physics</i> , 2000 , 2, 24-24	2.9	163

255	Actively contracting bundles of polar filaments. <i>Physical Review Letters</i> , 2000 , 85, 1778-81	7.4	158
254	Chemotaxis of sperm cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 13256-61	11.5	157
253	Bidirectional cooperative motion of molecular motors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 6696-701	11.5	156
252	Mechanics and remodelling of cell packings in epithelia. <i>European Physical Journal E</i> , 2010 , 33, 117-27	1.5	152
251	Pattern formation in active fluids. <i>Physical Review Letters</i> , 2011 , 106, 028103	7.4	149
250	Spindle oscillations during asymmetric cell division require a threshold number of active cortical force generators. <i>Current Biology</i> , 2006 , 16, 2111-22	6.3	143
249	Contractility and retrograde flow in lamellipodium motion. <i>Physical Biology</i> , 2006 , 3, 130-7	3	142
248	Oscillations in cell biology. <i>Current Opinion in Cell Biology</i> , 2005 , 17, 20-6	9	141
247	Centrosome size sets mitotic spindle length in <i>Caenorhabditis elegans</i> embryos. <i>Current Biology</i> , 2010 , 20, 353-8	6.3	140
246	Active torque generation by the actomyosin cell cortex drives left-right symmetry breaking. <i>ELife</i> , 2014 , 3, e04165	8.9	137
245	Active hair-bundle motility harnesses noise to operate near an optimum of mechanosensitivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 12195-200	11.5	133
244	Centrosomes are autocatalytic droplets of pericentriolar material organized by centrioles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E2636-45	11.5	122
243	Intercellular coupling regulates the period of the segmentation clock. <i>Current Biology</i> , 2010 , 20, 1244-53	6.3	122
242	Acting on actin: the electric motility assay. <i>European Biophysics Journal</i> , 1998 , 27, 403-8	1.9	120
241	Theory of mitotic spindle oscillations. <i>Physical Review Letters</i> , 2005 , 94, 108104	7.4	120
240	Generic theory of colloidal transport. <i>European Physical Journal E</i> , 2009 , 29, 27-36	1.5	117
239	Quantitative differences in tissue surface tension influence zebrafish germ layer positioning. <i>HFSP Journal</i> , 2008 , 2, 42-56		113
238	Precision of the Dpp gradient. <i>Development (Cambridge)</i> , 2008 , 135, 1137-46	6.6	111

237	Spatial organization of the cell cytoplasm by position-dependent phase separation. <i>Physical Review Letters</i> , 2013 , 111, 088101	7.4	110
236	Delayed coupling theory of vertebrate segmentation. <i>HFSP Journal</i> , 2009 , 3, 55-66		107
235	Quantification of surface tension and internal pressure generated by single mitotic cells. <i>Scientific Reports</i> , 2014 , 4, 6213	4.9	105
234	Opening of nucleic-acid double strands by helicases: active versus passive opening. <i>Physical Review E</i> , 2005 , 71, 011904	2.4	105
233	Hydrodynamic theory of active matter. <i>Reports on Progress in Physics</i> , 2018 , 81, 076601	14.4	104
232	Self-organization of dynein motors generates meiotic nuclear oscillations. <i>PLoS Biology</i> , 2009 , 7, e1000087		103
231	Phase separation provides a mechanism to reduce noise in cells. <i>Science</i> , 2020 , 367, 464-468	33.3	101
230	Unifying the various incarnations of active hair-bundle motility by the vertebrate hair cell. <i>Biophysical Journal</i> , 2007 , 93, 4053-67	2.9	101
229	Hydrodynamic theory for multi-component active polar gels. <i>New Journal of Physics</i> , 2007 , 9, 422-422	2.9	96
228	Dynamic Fluctuations of Semiflexible Filaments. <i>Physical Review Letters</i> , 1999 , 82, 3717-3720	7.4	96
227	Physical mechanisms shaping the Drosophila dorsoventral compartment boundary. <i>Current Biology</i> , 2012 , 22, 967-76	6.3	94
226	Understanding morphogenetic growth control -- lessons from flies. <i>Nature Reviews Molecular Cell Biology</i> , 2011 , 12, 594-604	48.7	94
225	Dynamic curvature regulation accounts for the symmetric and asymmetric beats of Chlamydomonas flagella. <i>ELife</i> , 2016 , 5,	8.9	91
224	Stress generation and filament turnover during actin ring constriction. <i>PLoS ONE</i> , 2007 , 2, e696	3.7	88
223	XMAP215 activity sets spindle length by controlling the total mass of spindle microtubules. <i>Nature Cell Biology</i> , 2013 , 15, 1116-22	23.4	87
222	Interface Contractility between Differently Fated Cells Drives Cell Elimination and Cyst Formation. <i>Current Biology</i> , 2016 , 26, 563-74	6.3	86
221	Dpp gradient formation by dynamin-dependent endocytosis: receptor trafficking and the diffusion model. <i>Development (Cambridge)</i> , 2004 , 131, 4843-56	6.6	86
220	Cell-body rocking is a dominant mechanism for flagellar synchronization in a swimming alga. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 18058-63	11.5	85

219	Establishment of global patterns of planar polarity during growth of the <i>Drosophila</i> wing epithelium. <i>Current Biology</i> , 2012 , 22, 1296-301	6.3	85
218	Generic Properties of Stochastic Entropy Production. <i>Physical Review Letters</i> , 2017 , 119, 140604	7.4	84
217	Topology and dynamics of the zebrafish segmentation clock core circuit. <i>PLoS Biology</i> , 2012 , 10, e1001364	6.7	84
216	Robust formation of morphogen gradients. <i>Physical Review Letters</i> , 2005 , 94, 018103	7.4	84
215	Genetic oscillations. A Doppler effect in embryonic pattern formation. <i>Science</i> , 2014 , 345, 222-5	33.3	83
214	A critique of the critical cochlea: Hopf--a bifurcation--is better than none. <i>Journal of Neurophysiology</i> , 2010 , 104, 1219-29	3.2	83
213	Polarized endosome dynamics by spindle asymmetry during asymmetric cell division. <i>Nature</i> , 2015 , 528, 280-5	50.4	81
212	Suppression of Ostwald ripening in active emulsions. <i>Physical Review E</i> , 2015 , 92, 012317	2.4	79
211	Theme Issue in memory of Tom Duke. <i>Interface Focus</i> , 2014 , 4, 20140072	3.9	78
210	Bipedal locomotion in crawling cells. <i>Biophysical Journal</i> , 2010 , 98, 933-42	2.9	78
209	Shape equations for axisymmetric vesicles: A clarification. <i>Physical Review E</i> , 1994 , 49, 4728-4731	2.4	78
208	Self-organization and mechanical properties of active filament bundles. <i>Physical Review E</i> , 2003 , 67, 051913	1.3	77
207	TissueMiner: A multiscale analysis toolkit to quantify how cellular processes create tissue dynamics. <i>ELife</i> , 2016 , 5,	8.9	77
206	Rheology of the Active Cell Cortex in Mitosis. <i>Biophysical Journal</i> , 2016 , 111, 589-600	2.9	76
205	Protein condensates as aging Maxwell fluids. <i>Science</i> , 2020 , 370, 1317-1323	33.3	75
204	Flagellar synchronization independent of hydrodynamic interactions. <i>Physical Review Letters</i> , 2012 , 109, 138102	7.4	75
203	The stochastic dance of circling sperm cells: sperm chemotaxis in the plane. <i>New Journal of Physics</i> , 2008 , 10, 123025	2.9	74
202	Salt-Dependent Rheology and Surface Tension of Protein Condensates Using Optical Traps. <i>Physical Review Letters</i> , 2018 , 121, 258101	7.4	73

201	Physics of active emulsions. <i>Reports on Progress in Physics</i> , 2019 , 82, 064601	14.4	72
200	Epithelial Viscoelasticity Is Regulated by Mechanosensitive E-cadherin Turnover. <i>Current Biology</i> , 2019 , 29, 578-591.e5	6.3	71
199	The chirality of ciliary beats. <i>Physical Biology</i> , 2008 , 5, 016003	3	71
198	Active traveling wave in the cochlea. <i>Physical Review Letters</i> , 2003 , 90, 158101	7.4	68
197	Motion of RNA polymerase along DNA: a stochastic model. <i>Biophysical Journal</i> , 1998 , 74, 1169-85	2.9	68
196	Physical basis of two-tone interference in hearing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 9080-5	11.5	67
195	Antagonistic Self-Organizing Patterning Systems Control Maintenance and Regeneration of the Anteroposterior Axis in Planarians. <i>Developmental Cell</i> , 2017 , 40, 248-263.e4	10.2	66
194	Local increases in mechanical tension shape compartment boundaries by biasing cell intercalations. <i>Current Biology</i> , 2014 , 24, 1798-805	6.3	65
193	Steering chiral swimmers along noisy helical paths. <i>Physical Review Letters</i> , 2009 , 103, 068102	7.4	65
192	Active phase and amplitude fluctuations of flagellar beating. <i>Physical Review Letters</i> , 2014 , 113, 048101	7.4	64
191	Enhancement of sensitivity gain and frequency tuning by coupling of active hair bundles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 18669-74	11.5	61
190	Nonlinear dynamics of cilia and flagella. <i>Physical Review E</i> , 2009 , 79, 051918	2.4	60
189	Dynamics of anisotropic tissue growth. <i>New Journal of Physics</i> , 2008 , 10, 063001	2.9	60
188	Persistence, period and precision of autonomous cellular oscillators from the zebrafish segmentation clock. <i>ELife</i> , 2016 , 5,	8.9	59
187	Differential lateral and basal tension drive folding of <i>Drosophila</i> wing discs through two distinct mechanisms. <i>Nature Communications</i> , 2018 , 9, 4620	17.4	58
186	Membranes with rotating motors. <i>Physical Review Letters</i> , 2003 , 91, 108104	7.4	55
185	Quantitation of regional cerebral blood flow with 15O-butanol and positron emission tomography in humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1996 , 16, 645-9	7.3	55
184	Mechanics of active surfaces. <i>Physical Review E</i> , 2017 , 96, 032404	2.4	54

183	Controlling contractile instabilities in the actomyosin cortex. <i>ELife</i> , 2017 , 6,	8.9	54
182	The Taylor-Couette motor: spontaneous flows of active polar fluids between two coaxial cylinders. <i>New Journal of Physics</i> , 2012 , 14, 023001	2.9	53
181	Precision of genetic oscillators and clocks. <i>Physical Review Letters</i> , 2007 , 98, 228101	7.4	53
180	The balance of prickle/spiny-legs isoforms controls the amount of coupling between core and fat PCP systems. <i>Current Biology</i> , 2014 , 24, 2111-2123	6.3	52
179	Filament depolymerization by motor molecules. <i>Physical Review Letters</i> , 2005 , 94, 108102	7.4	52
178	Investigating the principles of morphogen gradient formation: from tissues to cells. <i>Current Opinion in Genetics and Development</i> , 2012 , 22, 527-32	4.9	51
177	Active chiral fluids. <i>European Physical Journal E</i> , 2012 , 35, 89	1.5	51
176	A general theoretical framework to infer endosomal network dynamics from quantitative image analysis. <i>Current Biology</i> , 2012 , 22, 1381-90	6.3	51
175	Guiding self-organized pattern formation in cell polarity establishment. <i>Nature Physics</i> , 2019 , 15, 293-300	6.2	51
174	Statistics of Infima and Stopping Times of Entropy Production and Applications to Active Molecular Processes. <i>Physical Review X</i> , 2017 , 7,	9.1	50
173	Postsynaptic mad signaling at the Drosophila neuromuscular junction. <i>Current Biology</i> , 2006 , 16, 625-35	6.3	50
172	Motion of an adhesive gel in a swelling gradient: a mechanism for cell locomotion. <i>Physical Review Letters</i> , 2003 , 90, 168102	7.4	50
171	A motor that makes its own track: helicase unwinding of DNA. <i>Physical Review Letters</i> , 2003 , 91, 258103	7.4	50
170	Self-propagating patterns in active filament bundles. <i>Physical Review Letters</i> , 2001 , 87, 138101	7.4	50
169	Active chiral processes in thin films. <i>Physical Review Letters</i> , 2013 , 110, 048103	7.4	49
168	Conformal degeneracy and conformal diffusion of vesicles. <i>Physical Review Letters</i> , 1993 , 71, 452-455	7.4	49
167	Determining Physical Properties of the Cell Cortex. <i>Biophysical Journal</i> , 2016 , 110, 1421-9	2.9	48
166	Self-organized shape dynamics of active surfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 29-34	11.5	48

165	Cell flow and tissue polarity patterns. <i>Current Opinion in Genetics and Development</i> , 2011 , 21, 747-52	4.9	47
164	Cell dynamics underlying oriented growth of the wing imaginal disc. <i>Development (Cambridge)</i> , 2017 , 144, 4406-4421	6.6	46
163	Decision Making in the Arrow of Time. <i>Physical Review Letters</i> , 2015 , 115, 250602	7.4	46
162	Wnt-regulated dynamics of positional information in zebrafish somitogenesis. <i>Development (Cambridge)</i> , 2014 , 141, 1381-91	6.6	44
161	Scaling and regeneration of self-organized patterns. <i>Physical Review Letters</i> , 2015 , 114, 138101	7.4	44
160	Continuum description of the cytoskeleton: ring formation in the cell cortex. <i>Physical Review Letters</i> , 2005 , 95, 258103	7.4	44
159	Triangles bridge the scales: Quantifying cellular contributions to tissue deformation. <i>Physical Review E</i> , 2017 , 95, 032401	2.4	40
158	Pulsatory Patterns in Active Fluids. <i>Physical Review Letters</i> , 2014 , 112,	7.4	40
157	Collective modes of coupled phase oscillators with delayed coupling. <i>Physical Review Letters</i> , 2012 , 108, 204101	7.4	40
156	Morphogen transport in epithelia. <i>Physical Review E</i> , 2007 , 75, 011901	2.4	40
155	Stress distributions and cell flows in a growing cell aggregate. <i>Interface Focus</i> , 2014 , 4, 20140033	3.9	39
154	Molecular Motors: From Individual to Collective Behavior. <i>Progress of Theoretical Physics Supplement</i> , 1998 , 130, 9-16		39
153	The interplay between active hair bundle motility and electromotility in the cochlea. <i>Journal of the Acoustical Society of America</i> , 2010 , 128, 1175-90	2.2	37
152	Hydrodynamics of active permeating gels. <i>New Journal of Physics</i> , 2011 , 13, 093027	2.9	36
151	Growth control by a moving morphogen gradient during <i>Drosophila</i> eye development. <i>Development (Cambridge)</i> , 2014 , 141, 1884-93	6.6	35
150	Role of tensile stress in actin gels and a symmetry-breaking instability. <i>European Physical Journal E</i> , 2004 , 13, 247-59	1.5	35
149	Polo-like kinase phosphorylation determines <i>Caenorhabditis elegans</i> centrosome size and density by biasing SPD-5 toward an assembly-competent conformation. <i>Biology Open</i> , 2016 , 5, 1431-1440	2.2	35
148	Coupling a sensory hair-cell bundle to cyber clones enhances nonlinear amplification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 8079-84	11.5	34

147	Detachment of molecular motors under tangential loading. <i>Europhysics Letters</i> , 2001 , 56, 603-609	1.6	34
146	Supercoiling transitions of closed DNA. <i>Physical Review E</i> , 1994 , 49, 2429-2435	2.4	34
145	Body size-dependent energy storage causes Kleiber's law scaling of the metabolic rate in planarians. <i>ELife</i> , 2019 , 8,	8.9	31
144	Active dynamics of tissue shear flow. <i>New Journal of Physics</i> , 2017 , 19, 033006	2.9	31
143	Emergence of tissue shape changes from collective cell behaviours. <i>Seminars in Cell and Developmental Biology</i> , 2017 , 67, 103-112	7.5	30
142	Collective behavior of antagonistically acting kinesin-1 motors. <i>Physical Review Letters</i> , 2010 , 105, 128102	7.4	30
141	Positioning of microtubule organizing centers by cortical pushing and pulling forces. <i>New Journal of Physics</i> , 2012 , 14, 105025	2.9	30
140	Continuum theory of contractile fibres. <i>Europhysics Letters</i> , 2003 , 64, 716-722	1.6	30
139	Universal critical behavior of noisy coupled oscillators. <i>Physical Review Letters</i> , 2004 , 93, 175702	7.4	30
138	Thermal and non-thermal fluctuations in active polar gels. <i>European Physical Journal E</i> , 2008 , 27, 149-60	1.5	29
137	Transcription organizes euchromatin via microphase separation. <i>Nature Communications</i> , 2021 , 12, 13601	7.4	29
136	Physical limits of flow sensing in the left-right organizer. <i>ELife</i> , 2017 , 6,	8.9	28
135	Morphogenetic oscillations during symmetry breaking of regenerating <i>Hydra vulgaris</i> cells. <i>Europhysics Letters</i> , 2003 , 64, 137-143	1.6	28
134	Transduction channels' gating can control friction on vibrating hair-cell bundles in the ear. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 7185-90	11.5	27
133	Independent Control of the Static and Dynamic Components of the <i>Chlamydomonas</i> Flagellar Beat. <i>Current Biology</i> , 2016 , 26, 1098-103	6.3	27
132	Active elastic thin shell theory for cellular deformations. <i>New Journal of Physics</i> , 2014 , 16, 065005	2.9	26
131	Quantification of growth asymmetries in developing epithelia. <i>European Physical Journal E</i> , 2009 , 30, 93-9	1.5	26
130	Liquid-crystal organization of liver tissue. <i>ELife</i> , 2019 , 8,	8.9	25

129	The Morphology of Vesicles of Higher Topological Genus: Conformal Degeneracy and Conformal Modes. <i>Journal De Physique II</i> , 1996 , 6, 1797-1824		25
128	Exact Functional Renormalization Group for Wetting Transitions in 1 + 1 Dimensions. <i>Europhysics Letters</i> , 1990 , 11, 657-662	1.6	24
127	Morphogenetic degeneracies in the actomyosin cortex. <i>ELife</i> , 2018 , 7,	8.9	24
126	Autonomous Chemical Oscillator Circuit Based on Bidirectional Chemical-Microfluidic Coupling. <i>Advanced Materials Technologies</i> , 2016 , 1, 1600005	6.8	24
125	A local difference in Hedgehog signal transduction increases mechanical cell bond tension and biases cell intercalations along the Drosophila anteroposterior compartment boundary. <i>Development (Cambridge)</i> , 2015 , 142, 3845-58	6.6	23
124	General theory for the mechanics of confined microtubule asters. <i>New Journal of Physics</i> , 2014 , 16, 013018	1.5	23
123	Synchronization dynamics in the presence of coupling delays and phase shifts. <i>Physical Review Letters</i> , 2014 , 112, 174101	7.4	23
122	Multimotor transport in a system of active and inactive kinesin-1 motors. <i>Biophysical Journal</i> , 2014 , 107, 365-372	2.9	22
121	Tissue dynamics with permeation. <i>European Physical Journal E</i> , 2012 , 35, 46	1.5	22
120	Spontaneous movements and linear response of a noisy oscillator. <i>European Physical Journal E</i> , 2009 , 29, 449-60	1.5	22
119	Universal critical behavior of noisy coupled oscillators: a renormalization group study. <i>Physical Review E</i> , 2005 , 72, 016130	2.4	22
118	Continuum theory of gene expression waves during vertebrate segmentation. <i>New Journal of Physics</i> , 2015 , 17, 093042	2.9	21
117	Motor regulation results in distal forces that bend partially disintegrated Chlamydomonas axonemes into circular arcs. <i>Biophysical Journal</i> , 2014 , 106, 2434-42	2.9	21
116	Droplet ripening in concentration gradients. <i>New Journal of Physics</i> , 2017 , 19, 053021	2.9	21
115	On the Bacterial Propulsion mechanism 1999 , 53, 155-170		21
114	Local exponents of nonlinear compression in periodically driven noisy oscillators. <i>Physical Review Letters</i> , 2009 , 103, 250601	7.4	20
113	Curvature regulation of the ciliary beat through axonemal twist. <i>Physical Review E</i> , 2016 , 94, 042426	2.4	19
112	Activity induces traveling waves, vortices and spatiotemporal chaos in a model actomyosin layer. <i>Scientific Reports</i> , 2016 , 6, 20838	4.9	19

111	Influence of size of regions of interest on PET evaluation of caudate glucose consumption. <i>Journal of Computer Assisted Tomography</i> , 1992 , 16, 789-94	2.2	18
110	Power-law population heterogeneity governs epidemic waves. <i>PLoS ONE</i> , 2020 , 15, e0239678	3.7	18
109	Phase diagrams and shape transformations of toroidal vesicles. <i>Journal De Physique II</i> , 1993 , 3, 1681-1705		18
108	The role of endocytosis during morphogenetic signaling. <i>Cold Spring Harbor Perspectives in Biology</i> , 2014 , 6, a016881	10.2	17
107	An active oscillator model describes the statistics of spontaneous otoacoustic emissions. <i>Biophysical Journal</i> , 2014 , 107, 815-24	2.9	17
106	Comment on "Osmotic propulsion: the osmotic motor". <i>Physical Review Letters</i> , 2009 , 103, 079801; author reply 079802	7.4	17
105	Liquid Phase Separation Controlled by pH. <i>Biophysical Journal</i> , 2020 , 119, 1590-1605	2.9	17
104	Fluid pumping and active flexoelectricity can promote lumen nucleation in cell assemblies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 19264-19273	11.5	16
103	Critical Point in Self-Organized Tissue Growth. <i>Physical Review Letters</i> , 2018 , 120, 198102	7.4	16
102	The wing and the eye: a parsimonious theory for scaling and growth control?. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2015 , 4, 591-608	5.9	16
101	Mechanically driven interface propagation in biological tissues. <i>New Journal of Physics</i> , 2014 , 16, 035002	2.9	16
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