Manuel ThÃ©ry

List of Publications by Year
in descending order

80	11,144	43973 48	69108 77
papers	citations	h-index	g-index

103	103	103	12609
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microtubules tune mechanosensitive cell responses. Nature Materials, 2022, 21, 366-377.	13.3	77
2	Visualization and Quantification of Microtubule Self-Repair. Methods in Molecular Biology, 2022, 2430, 279-289.	0.4	0
3	Reconstituting the Interaction Between Purified Nuclei and Microtubule Network. Methods in Molecular Biology, 2022, 2430, 385-399.	0.4	0
4	Homage to Michel Bornens, who passed away on March 9, 2022 at the age of 84. EMBO Reports, 2022, , e55237.	2.0	1
5	Stress fibres are embedded in a contractile cortical network. Nature Materials, 2021, 20, 410-420.	13.3	73
6	Microtubule self-repair. Current Opinion in Cell Biology, 2021, 68, 144-154.	2.6	36
7	Fat1 deletion promotes hybrid EMT state, tumour stemness and metastasis. Nature, 2021, 589, 448-455.	13.7	232
8	Manufacturing a Bone Marrow-On-A-Chip Using Maskless Photolithography. Methods in Molecular Biology, 2021, 2308, 263-278.	0.4	7
9	Self-repair protects microtubules from destruction by molecular motors. Nature Materials, 2021, 20, 883-891.	13.3	67
10	Acto-myosin network geometry defines centrosome position. Current Biology, 2021, 31, 1206-1220.e5.	1.8	42
11	Kinesin-6 Klp9 orchestrates spindle elongation by regulating microtubule sliding and growth. ELife, 2021, 10, .	2.8	9
12	The biochemical composition of the actomyosin network sets the magnitude of cellular traction forces. Molecular Biology of the Cell, 2021, 32, 1737-1748.	0.9	8
13	Hematopoietic progenitors polarize in contact with bone marrow stromal cells in response to SDF1. Journal of Cell Biology, 2021, 220, .	2.3	8
14	A new perspective on microtubule dynamics: destruction by molecular motors and self-repair. Comptes Rendus - Biologies, 2021, 344, 297-310.	0.1	0
15	Tailoring cryo-electron microscopy grids by photo-micropatterning for in-cell structural studies. Nature Methods, 2020, 17, 50-54.	9.0	67
16	CLASP Mediates Microtubule Repair by Restricting Lattice Damage and Regulating Tubulin Incorporation. Current Biology, 2020, 30, 2175-2183.e6.	1.8	50
17	Microtubules control nuclear shape and gene expression during early stages of hematopoietic differentiation. EMBO Journal, 2020, 39, e103957.	3.5	42
18	Lattice defects induce microtubule self-renewal. Nature Physics, 2019, 15, 830-838.	6.5	79

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19	Local actin nucleation tunes centrosomal microtubule nucleation during passage throughÂmitosis. EMBO Journal, 2019, 38, .	3.5	48
20	Actin filaments regulate microtubule growth at theÂcentrosome. EMBO Journal, 2019, 38, .	3.5	82
21	Spatial integration of mechanical forces by Î±-actinin establishes actin network symmetry. Journal of Cell Science, 2019, 132, .	1.2	25
22	Quantitative regulation of the dynamic steady state of actin networks. ELife, 2019, 8, .	2.8	16
23	Golgi mechanics controls lipid metabolism. Nature Cell Biology, 2019, 21, 301-302.	4.6	0
24	Variation in traction forces during cell cycle progression. Biology of the Cell, 2018, 110, 91-96.	0.7	43
25	Cellular stretch reveals superelastic powers. Nature, 2018, 563, 192-194.	13.7	2
26	Actin-Network Architecture Regulates Microtubule Dynamics. Current Biology, 2018, 28, 2647-2656.e4.	1.8	82
27	Geometrical confinement controls the asymmetric patterning of Brachyury in cultures of pluripotent cells. Development (Cambridge), 2018, 145, .	1.2	44
28	Tubulin acetylation protects long-lived microtubules against mechanical ageing. Nature Cell Biology, 2017, 19, 391-398.	4.6	359
29	Microtubules acquire resistance from mechanical breakage through intralumenal acetylation. Science, 2017, 356, 328-332.	6.0	342
30	The size-speed-force relationship governs migratory cell response to tumorigenic factors. Molecular Biology of the Cell, 2017, 28, 1612-1621.	0.9	28
31	Polarity Reversal by Centrosome Repositioning Primes Cell Scattering during Epithelial-to-Mesenchymal Transition. Developmental Cell, 2017, 40, 168-184.	3.1	89
32	Microtubule stabilization drives 3D centrosome migration to initiate primary ciliogenesis. Journal of Cell Biology, 2017, 216, 3713-3728.	2.3	64
33	Network heterogeneity regulates steering in actin-based motility. Nature Communications, 2017, 8, 655.	5.8	30
34	Convergence of microengineering and cellular self-organization towards functional tissue manufacturing. Nature Biomedical Engineering, 2017, 1, 939-956.	11.6	90
35	Dissipation of contractile forces: the missing piece in cell mechanics. Molecular Biology of the Cell, 2017, 28, 1825-1832.	0.9	28
36	Stem Cell-Like Properties of CK2Î²-down Regulated Mammary Cells. Cancers, 2017, 9, 114.	1.7	6

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37	Kank2 activates talin, reduces force transduction across integrins and induces central adhesionÂformation. Nature Cell Biology, 2016, 18, 941-953.	4.6	144
38	Centrosome centering and decentering by microtubule network rearrangement. Molecular Biology of the Cell, 2016, 27, 2833-2843.	0.9	70
39	Self-repair promotes microtubule rescue. Nature Cell Biology, 2016, 18, 1054-1064.	4.6	153
40	Actin nucleation at the centrosome controls lymphocyte polarity. Nature Communications, 2016, 7, 10969.	5.8	109
41	The centrosome is an actin-organizing centre. Nature Cell Biology, 2016, 18, 65-75.	4.6	206
42	Architecture and Connectivity Govern Actin Network Contractility. Current Biology, 2016, 26, 616-626.	1.8	221
43	Dynamic reorganization of the actin cytoskeleton. F1000Research, 2015, 4, 940.	0.8	35
44	Measurement of cell traction forces with ImageJ. Methods in Cell Biology, 2015, 125, 269-287.	0.5	108
45	Geometrical and Mechanical Properties Control Actin Filament Organization. PLoS Computational Biology, 2015, 11, e1004245.	1.5	30
46	Microtubules self-repair in response to mechanical stress. Nature Materials, 2015, 14, 1156-1163.	13.3	244
47	Design of a 2D no-flow chamber to monitor hematopoietic stem cells. Lab on A Chip, 2015, 15, 77-85.	3.1	20
48	Directed Actin Assembly and Motility. Methods in Enzymology, 2014, 540, 283-300.	0.4	7
49	Oncogene-like induction of cellular invasion from centrosome amplification. Nature, 2014, 510, 167-171.	13.7	360
50	Polyacrylamide Hydrogel Micropatterning. Methods in Cell Biology, 2014, 120, 93-116.	0.5	70
51	Geometrical Control of Actin Assembly and Contractility. Methods in Cell Biology, 2014, 120, 19-38.	0.5	13
52	Cytokinesis Failure Triggers Hippo Tumor Suppressor Pathway Activation. Cell, 2014, 158, 833-848.	13.5	312
53	Microtubule-sliding activity of a kinesin-8 promotes spindle assembly and spindle-length control. Nature Cell Biology, 2013, 15, 948-957.	4.6	82
54	Quantification of MAP and molecular motor activities on geometrically controlled microtubule networks. Cytoskeleton, 2013, 70, 12-23.	1.0	35

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55	Fabrication of three-dimensional electrical connections by means of directed actin self-organization. Nature Materials, 2013, 12, 416-421.	13.3	55
56	Î²1- and Î±v-class integrins cooperate to regulate myosinÂII during rigidity sensing of fibronectin-based microenvironments. Nature Cell Biology, 2013, 15, 625-636.	4.6	386
57	Probing Ciliogenesis Using Micropatterned Substrates. Methods in Enzymology, 2013, 525, 109-130.	0.4	4
58	Reprogramming cell shape with laser nano-patterning. Journal of Cell Science, 2012, 125, 2134-40.	1.2	66
59	The first World Cell Race. Current Biology, 2012, 22, R673-R675.	1.8	130
60	Spatial segregation between cellâ€“cell and cellâ€“matrix adhesions. Current Opinion in Cell Biology, 2012, 24, 628-636.	2.6	55
61	Wave of migration. Nature Physics, 2012, 8, 583-584.	6.5	5
62	Spatial organization of the extracellular matrix regulates cellâ€“cell junction positioning. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1506-1511.	3.3	502
63	Directed cytoskeleton self-organization. Trends in Cell Biology, 2012, 22, 671-682.	3.6	111
64	Actin Network Architecture Can Determine Myosin Motor Activity. Science, 2012, 336, 1310-1314.	6.0	281
65	A new micropatterning method of soft substrates reveals that different tumorigenic signals can promote or reduce cell contraction levels. Lab on A Chip, 2011, 11, 2231.	3.1	217
66	Nucleation geometry governs ordered actin networks structures. Nature Materials, 2010, 9, 827-832.	13.3	117
67	Cell shape and contractility regulate ciliogenesis in cell cycleâ€“arrested cells. Journal of Cell Biology, 2010, 191, 303-312.	2.3	182
68	Micropatterning as a tool to decipher cell morphogenesis and functions. Journal of Cell Science, 2010, 123, 4201-4213.	1.2	625
69	Protein Micropatterns. Methods in Cell Biology, 2010, 97, 133-146.	0.5	104
70	Simple and rapid process for single cell micro-patterning. Lab on A Chip, 2009, 9, 1640.	3.1	236
71	Mechanisms to suppress multipolar divisions in cancer cells with extra centrosomes. Genes and Development, 2008, 22, 2189-2203.	2.7	562
72	Get round and stiff for mitosis. HFSP Journal, 2008, 2, 65-71.	2.5	89

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73	Comparative study and improvement of current cell micro-patterning techniques. Lab on A Chip, 2007, 7, 672-680.	3.1	158
74	Experimental and theoretical study of mitotic spindle orientation. Nature, 2007, 447, 493-496.	13.7	377
75	The Universal Dynamics of Cell Spreading. Current Biology, 2007, 17, 694-699.	1.8	249
76	Cell shape and cell division. Current Opinion in Cell Biology, 2006, 18, 648-657.	2.6	270
77	Cell distribution of stress fibres in response to the geometry of the adhesive environment. Cytoskeleton, 2006, 63, 341-355.	4.4	386
78	Tubulin tyrosination is a major factor affecting the recruitment of CAP-Gly proteins at microtubule plus ends. Journal of Cell Biology, 2006, 174, 839-849.	2.3	271
79	Anisotropy of cell adhesive microenvironment governs cell internal organization and orientation of polarity. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19771-19776.	3.3	525
80	The extracellular matrix guides the orientation of the cell division axis. Nature Cell Biology, 2005, 7, 947-953.	4.6	725