Huw Colin-York

List of Publications by Year
in descending order

29 papers	1,119 citations	471509 17 h-index	477307 29 g-index
31 all docs	31 docs citations	31 times ranked	1892 citing authors

#	Article	IF	Citations
1	Cytoskeletal actin dynamics shape a ramifying actin network underpinning immunological synapse formation. Science Advances, 2017, 3, e1603032.	10.3	143
2	Self-organizing actin patterns shape membrane architecture but not cell mechanics. Nature Communications, 2017, 8, 14347.	12.8	99
3	The 2018 correlative microscopy techniques roadmap. Journal Physics D: Applied Physics, 2018, 51, 443001.	2.8	99
4	Super-Resolved Traction Force Microscopy (STFM). Nano Letters, 2016, 16, 2633-2638.	9.1	86
5	Exploring the Potential of Airyscan Microscopy for Live Cell Imaging. Photonics, 2017, 4, 41.	2.0	74
6	Cytoskeletal Control of Antigen-Dependent T Cell Activation. Cell Reports, 2019, 26, 3369-3379.e5.	6.4	68
7	Dissecting the actin cortex density and membrane-cortex distance in living cells by super-resolution microscopy. Journal Physics D: Applied Physics, 2017, 50, 064002.	2.8	62
8	Dissection of mechanical force in living cells by super-resolved traction force microscopy. Nature Protocols, 2017, 12, 783-796.	12.0	53
9	Spatiotemporally Super-Resolved Volumetric Traction Force Microscopy. Nano Letters, 2019, 19, 4427-4434.	9.1	43
10	Orchestrated control of filaggrinâ€“actin scaffolds underpins cornification. Cell Death and Disease, 2018, 9, 412.	6.3	42
11	The future of traction force microscopy. Current Opinion in Biomedical Engineering, 2018, 5, 1-5.	3.4	39
12	Cytoskeletal actin patterns shape mast cell activation. Communications Biology, 2019, 2, 93.	4.4	35
13	Astigmatic traction force microscopy (aTFM). Nature Communications, 2021, 12, 2168.	12.8	34
14	Two-dimensional TIRF-SIMâ€“traction force microscopy (2D TIRF-SIM-TFM). Nature Communications, 2021, 12, 2169.	12.8	31
15	Distinct actin cytoskeleton behaviour in primary and immortalised T-cells. Journal of Cell Science, 2020, 133, .	2.0	28
16	Self-Maintaining CD103+ Cancer-Specific T Cells Are Highly Energetic with Rapid Cytotoxic and Effector Responses. Cancer Immunology Research, 2020, 8, 203-216.	3.4	27
17	Cellular census of human fibrosis defines functionally distinct stromal cell types and states. Nature Communications, 2020, 11, 2768.	12.8	23
18	Identification of TNFR2 and IL-33 as therapeutic targets in localized fibrosis. Science Advances, 2019, 5, eaay0370.	10.3	22

#	Article	IF	Citations
19	Quantifying cell-generated forces: Poissonâ€™s ratio matters. Communications Physics, 2021, 4, 237.	5.3	22
20	Not All T Cell Synapses Are Built the Same Way. Trends in Immunology, 2019, 40, 977-980.	6.8	18
21	T-cell trans-synaptic vesicles are distinct and carry greater effector content than constitutive extracellular vesicles. Nature Communications, 2022, 13, .	12.8	18
22	Simultaneous Quantification of the Interplay Between Molecular Turnover and Cell Mechanics by AFMâ€“FRAP. Small, 2019, 15, e1902202.	10.0	13
23	CalQuo: automated, simultaneous single-cell and population-level quantification of global intracellular Ca2+ responses. Scientific Reports, 2015, 5, 16487.	3.3	10
24	CalQuo 2 : Automated Fourier-space, population-level quantification of global intracellular calcium responses. Scientific Reports, 2017, 7, 5416.	3.3	10
25	Single cell force profiling of human myofibroblasts reveals a biophysical spectrum of cell states. Biology Open, 2020, 9, .	1.2	6
26	Quantitative Bio-Imaging Tools to Dissect the Interplay of Membrane and Cytoskeletal Actin Dynamics in Immune Cells. Frontiers in Immunology, 2020, 11, 612542.	4.8	4
27	Quantifying Molecular Dynamics within Complex Cellular Morphologies using LLSMâ€FRAP. Small Methods, 2022, 6, e2200149.	8.6	4
28	Quantitative Methodologies to Dissect Immune Cell Mechanobiology. Cells, 2021, 10, 851.	4.1	2
29	Extended mechanical force measurements using structured illumination microscopy. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200151.	3.4	0