

# Marisa L Martin-Fernandez

## List of Publications by Year in Descending Order

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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.

69

papers

1,766

citations

25

h-index

41

g-index

80

ext. papers

2,233

ext. citations

5.6

avg, IF

4.38

L-index

#	Paper	IF	Citations
69	Myosin VI regulates the spatial organisation of mammalian transcription initiation.. <i>Nature Communications</i> , <b>2022</b> , 13, 1346	17.4	1
68	Correlative multi-scale cryo-imaging unveils SARS-CoV-2 assembly and egress. <i>Nature Communications</i> , <b>2021</b> , 12, 4629	17.4	24
67	A brief history of the octopus imaging facility to celebrate its 10th anniversary. <i>Journal of Microscopy</i> , <b>2021</b> , 281, 3-15	1.9	
66	DNA damage alters nuclear mechanics through chromatin reorganization. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, 340-353	20.1	13
65	Serial cryoFIB/SEM Reveals Cytoarchitectural Disruptions in Leigh Syndrome Patient Cells. <i>Structure</i> , <b>2021</b> , 29, 82-87.e3	5.2	10
64	Correlative Multi-scale Cryo-imaging Unveils SARS-CoV-2 Assembly and Egress <b>2021</b> ,		1
63	A Targeted and Tuneable DNA Damage Tool Using CRISPR/Cas9. <i>Biomolecules</i> , <b>2021</b> , 11,	5.9	2
62	Cooperation and Interplay between EGFR Signalling and Extracellular Vesicle Biogenesis in Cancer. <i>Cells</i> , <b>2020</b> , 9,	7.9	5
61	The smfBox is an open-source platform for single-molecule FRET. <i>Nature Communications</i> , <b>2020</b> , 11, 5641	17.4	5
60	Super-Resolution Fluorescence Microscopy Reveals Clustering Behaviour of Major Outer Membrane Protein. <i>Biology</i> , <b>2020</b> , 9,	4.9	1
59	Competition between two high- and low-affinity protein-binding sites in myosin VI controls its cellular function. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 337-347	5.4	13
58	Supramolecular clustering of the cardiac sodium channel Nav1.5 in HEK293F cells, with and without the auxiliary $\beta$ -subunit. <i>FASEB Journal</i> , <b>2020</b> , 34, 3537-3553	0.9	4
57	A small molecule inhibitor of HER3: a proof-of-concept study. <i>Biochemical Journal</i> , <b>2020</b> , 477, 3329-3347	3.8	6
56	Mechanisms of Action of EGFR Tyrosine Kinase Receptor Incorporated in Extracellular Vesicles. <i>Cells</i> , <b>2020</b> , 9,	7.9	4
55	A global sampler of single particle tracking solutions for single molecule microscopy. <i>PLoS ONE</i> , <b>2019</b> , 14, e0221865	3.7	1
54	A highly dynamic F-actin network regulates transport and recycling of micronemes in <i>Toxoplasma gondii</i> vacuoles. <i>Nature Communications</i> , <b>2019</b> , 10, 4183	17.4	10
53	The Rho family GEF FARP2 is activated by aPKC $\zeta$ to control tight junction formation and polarity. <i>Journal of Cell Science</i> , <b>2019</b> , 132,	5.3	4

52	Solid immersion microscopy images cells under cryogenic conditions with 12 nm resolution. <i>Communications Biology</i> , <b>2019</b> , 2, 74	6.7	27
51	A Brief History of Single-Particle Tracking of the Epidermal Growth Factor Receptor. <i>Methods and Protocols</i> , <b>2019</b> , 2,	2.5	8
50	Structure and Dynamics of the EGF Receptor as Revealed by Experiments and Simulations and Its Relevance to Non-Small Cell Lung Cancer. <i>Cells</i> , <b>2019</b> , 8,	7.9	15
49	Super-resolution Microscopy at Cryogenic Temperatures Using Solid Immersion Lenses. <i>Bio-protocol</i> , <b>2019</b> , 9, e3426	0.9	2
48	Inhibitor-induced HER2-HER3 heterodimerisation promotes proliferation through a novel dimer interface. <i>ELife</i> , <b>2018</b> , 7,	8.9	36
47	Cluster Analysis of Endogenous HER2 and HER3 Receptors in SKBR3 Cells. <i>Bio-protocol</i> , <b>2018</b> , 8, e3096	0.9	5
46	High-Resolution Microscopy for Structural Studies of Biological Systems in Cells <b>2018</b> , 1-10		
45	The architecture of EGFR $\gamma$ basal complexes reveals autoinhibition mechanisms in dimers and oligomers. <i>Nature Communications</i> , <b>2018</b> , 9, 4325	17.4	37
44	Affimer proteins are versatile and renewable affinity reagents. <i>ELife</i> , <b>2017</b> , 6,	8.9	103
43	EGFR oligomerization organizes kinase-active dimers into competent signalling platforms. <i>Nature Communications</i> , <b>2016</b> , 7, 13307	17.4	91
42	A tale of the epidermal growth factor receptor: The quest for structural resolution on cells. <i>Methods</i> , <b>2016</b> , 95, 86-93	4.6	13
41	Characterisation of the effects of optical aberrations in single molecule techniques. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 1755-67	3.5	11
40	Determining the geometry of oligomers of the human epidermal growth factor family on cells with 7nm resolution. <i>Progress in Biophysics and Molecular Biology</i> , <b>2015</b> , 118, 139-52	4.7	3
39	Determining the geometry of oligomers of the human epidermal growth factor family on cells with . <i>Biochemical Society Transactions</i> , <b>2015</b> , 43, 309-14	5.1	4
38	Nanometric molecular separation measurements by single molecule photobleaching. <i>Methods</i> , <b>2015</b> , 88, 76-80	4.6	7
37	Effect of phosphorylation on EGFR dimer stability probed by single-molecule dynamics and FRET/FLIM. <i>Biophysical Journal</i> , <b>2015</b> , 108, 1013-26	2.9	31
36	Structure-function relationships and supramolecular organization of the EGFR (epidermal growth factor receptor) on the cell surface. <i>Biochemical Society Transactions</i> , <b>2014</b> , 42, 114-9	5.1	16
35	Modulation of EGFR Dimer Stability by Manipulation of Phosphorilation in Situ. <i>Biophysical Journal</i> , <b>2014</b> , 106, 101a	2.9	

34	The ErbB4 CYT2 variant protects EGFR from ligand-induced degradation to enhance cancer cell motility. <i>Science Signaling</i> , <b>2014</b> , 7, ra78	8.8	28
33	A pocket guide to total internal reflection fluorescence. <i>Journal of Microscopy</i> , <b>2013</b> , 252, 16-22	1.9	72
32	Measuring EGFR separations on cells with ~10 nm resolution via fluorophore localization imaging with photobleaching. <i>PLoS ONE</i> , <b>2013</b> , 8, e62331	3.7	32
31	Hydrophobic fluorescent probes introduce artifacts into single molecule tracking experiments due to non-specific binding. <i>PLoS ONE</i> , <b>2013</b> , 8, e74200	3.7	104
30	A stochastic model for electron multiplication charge-coupled devices—from theory to practice. <i>PLoS ONE</i> , <b>2013</b> , 8, e53671	3.7	58
29	Investigating extracellular in situ EGFR structure and conformational changes using FRET microscopy. <i>Biochemical Society Transactions</i> , <b>2012</b> , 40, 189-94	5.1	7
28	Human epidermal growth factor receptor (HER1) aligned on the plasma membrane adopts key features of Drosophila EGFR asymmetry. <i>Biochemical Society Transactions</i> , <b>2012</b> , 40, 184-8	5.1	2
27	Multicolour single molecule imaging in cells with near infra-red dyes. <i>PLoS ONE</i> , <b>2012</b> , 7, e36265	3.7	24
26	A systematic investigation of differential effects of cell culture substrates on the extent of artifacts in single-molecule tracking. <i>PLoS ONE</i> , <b>2012</b> , 7, e45655	3.7	17
25	Cell wall constrains lateral diffusion of plant plasma-membrane proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 12805-10	11.5	178
24	Single molecule fluorescence detection and tracking in mammalian cells: the state-of-the-art and future perspectives. <i>International Journal of Molecular Sciences</i> , <b>2012</b> , 13, 14742-65	6.3	19
23	Multicolour single molecule imaging on cells using a supercontinuum source. <i>Biomedical Optics Express</i> , <b>2012</b> , 3, 400-6	3.5	13
22	Automated multidimensional single molecule fluorescence microscopy feature detection and tracking. <i>European Biophysics Journal</i> , <b>2011</b> , 40, 1167-86	1.9	38
21	Subcellular and single-molecule imaging of plant fluorescent proteins using total internal reflection fluorescence microscopy (TIRFM). <i>Journal of Experimental Botany</i> , <b>2011</b> , 62, 5419-28	7	46
20	Optics clustered to output unique solutions: a multi-laser facility for combined single molecule and ensemble microscopy. <i>Review of Scientific Instruments</i> , <b>2011</b> , 82, 093705	1.7	8
19	Human epidermal growth factor receptor (EGFR) aligned on the plasma membrane adopts key features of Drosophila EGFR asymmetry. <i>Molecular and Cellular Biology</i> , <b>2011</b> , 31, 2241-52	4.8	31
18	CAR modulates E-cadherin dynamics in the presence of adenovirus type 5. <i>PLoS ONE</i> , <b>2011</b> , 6, e23056	3.7	13
17	Self-association of calcium-binding protein S100A4 and metastasis. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 914-22	5.4	28

16	Focal adhesions are sites of integrin extension. <i>Journal of Cell Biology</i> , <b>2010</b> , 188, 891-903	7.3	91
15	Ectodomain orientation, conformational plasticity and oligomerization of ErbB1 receptors investigated by molecular dynamics. <i>Journal of Structural Biology</i> , <b>2009</b> , 167, 117-28	3.4	39
14	Single-molecule imaging and fluorescence lifetime imaging microscopy show different structures for high- and low-affinity epidermal growth factor receptors in A431 cells. <i>Biophysical Journal</i> , <b>2008</b> , 94, 803-19	2.9	69
13	Mutually antagonistic actions of S100A4 and S100A1 on normal and metastatic phenotypes. <i>Oncogene</i> , <b>2005</b> , 24, 1445-54	9.2	43
12	Interaction of metastasis-inducing S100A4 protein in vivo by fluorescence lifetime imaging microscopy. <i>European Biophysics Journal</i> , <b>2005</b> , 34, 19-27	1.9	24
11	High resolution LAPS using amorphous silicon as the semiconductor material. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 103, 436-441	8.5	45
10	Adenovirus type-5 entry and disassembly followed in living cells by FRET, fluorescence anisotropy, and FLIM. <i>Biophysical Journal</i> , <b>2004</b> , 87, 1316-27	2.9	42
9	Heterodimeric interaction and interfaces of S100A1 and S100P. <i>Biochemical Journal</i> , <b>2004</b> , 382, 375-83	3.8	29
8	Preformed oligomeric epidermal growth factor receptors undergo an ectodomain structure change during signaling. <i>Biophysical Journal</i> , <b>2002</b> , 82, 2415-27	2.9	95
7	Structure and Stabilisation of Self-Assembling Peptide Filaments <b>2002</b> , 113-125		
6	A high aperture beamline for vacuum ultraviolet circular dichroism on the srs. <i>Synchrotron Radiation News</i> , <b>2000</b> , 13, 21-27	0.6	8
5	A facility for confocal imaging and microvolume fluorescence lifetime spectroscopy at the SRS. <i>Synchrotron Radiation News</i> , <b>1998</b> , 11, 24-30	0.6	1
4	Time-resolved X-ray diffraction studies of myosin head movements in live frog sartorius muscle during isometric and isotonic contractions. <i>Journal of Muscle Research and Cell Motility</i> , <b>1994</b> , 15, 319-48 <sup>3,5</sup>		4 <sup>0</sup>
3	The cell wall regulates dynamics and size of plasma-membrane nanodomains in Arabidopsis		1
2	Nuclear myosin VI regulates the spatial organization of mammalian transcription initiation		5
1	Binding partners regulate unfolding of myosin VI to activate the molecular motor		2