

Marisa L Martin-Fernandez

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.

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	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> , 2012 , 109, 12805-10	11.5	178
68	Hydrophobic fluorescent probes introduce artifacts into single molecule tracking experiments due to non-specific binding. <i>PLoS ONE</i> , 2013 , 8, e74200	3.7	104
67	Affimer proteins are versatile and renewable affinity reagents. <i>ELife</i> , 2017 , 6,	8.9	103
66	Preformed oligomeric epidermal growth factor receptors undergo an ectodomain structure change during signaling. <i>Biophysical Journal</i> , 2002 , 82, 2415-27	2.9	95
65	EGFR oligomerization organizes kinase-active dimers into competent signalling platforms. <i>Nature Communications</i> , 2016 , 7, 13307	17.4	91
64	Focal adhesions are sites of integrin extension. <i>Journal of Cell Biology</i> , 2010 , 188, 891-903	7.3	91
63	A pocket guide to total internal reflection fluorescence. <i>Journal of Microscopy</i> , 2013 , 252, 16-22	1.9	72
62	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> , 2008 , 94, 803-19	2.9	69
61	A stochastic model for electron multiplication charge-coupled devices--from theory to practice. <i>PLoS ONE</i> , 2013 , 8, e53671	3.7	58
60	Subcellular and single-molecule imaging of plant fluorescent proteins using total internal reflection fluorescence microscopy (TIRFM). <i>Journal of Experimental Botany</i> , 2011 , 62, 5419-28	7	46
59	High resolution LAPS using amorphous silicon as the semiconductor material. <i>Sensors and Actuators B: Chemical</i> , 2004 , 103, 436-441	8.5	45
58	Mutually antagonistic actions of S100A4 and S100A1 on normal and metastatic phenotypes. <i>Oncogene</i> , 2005 , 24, 1445-54	9.2	43
57	Adenovirus type-5 entry and disassembly followed in living cells by FRET, fluorescence anisotropy, and FLIM. <i>Biophysical Journal</i> , 2004 , 87, 1316-27	2.9	42
56	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> , 1994 , 15, 319-48 ^{3.5}		40
55	Ectodomain orientation, conformational plasticity and oligomerization of ErbB1 receptors investigated by molecular dynamics. <i>Journal of Structural Biology</i> , 2009 , 167, 117-28	3.4	39
54	Automated multidimensional single molecule fluorescence microscopy feature detection and tracking. <i>European Biophysics Journal</i> , 2011 , 40, 1167-86	1.9	38
53	The architecture of EGFR β basal complexes reveals autoinhibition mechanisms in dimers and oligomers. <i>Nature Communications</i> , 2018 , 9, 4325	17.4	37

52	Inhibitor-induced HER2-HER3 heterodimerisation promotes proliferation through a novel dimer interface. <i>ELife</i> , 2018 , 7,	8.9	36
51	Measuring EGFR separations on cells with ~10 nm resolution via fluorophore localization imaging with photobleaching. <i>PLoS ONE</i> , 2013 , 8, e62331	3.7	32
50	Effect of phosphorylation on EGFR dimer stability probed by single-molecule dynamics and FRET/FLIM. <i>Biophysical Journal</i> , 2015 , 108, 1013-26	2.9	31
49	Human epidermal growth factor receptor (EGFR) aligned on the plasma membrane adopts key features of Drosophila EGFR asymmetry. <i>Molecular and Cellular Biology</i> , 2011 , 31, 2241-52	4.8	31
48	Heterodimeric interaction and interfaces of S100A1 and S100P. <i>Biochemical Journal</i> , 2004 , 382, 375-83	3.8	29
47	The ErbB4 CYT2 variant protects EGFR from ligand-induced degradation to enhance cancer cell motility. <i>Science Signaling</i> , 2014 , 7, ra78	8.8	28
46	Self-association of calcium-binding protein S100A4 and metastasis. <i>Journal of Biological Chemistry</i> , 2010 , 285, 914-22	5.4	28
45	Solid immersion microscopy images cells under cryogenic conditions with 12 nm resolution. <i>Communications Biology</i> , 2019 , 2, 74	6.7	27
44	Multicolour single molecule imaging in cells with near infra-red dyes. <i>PLoS ONE</i> , 2012 , 7, e36265	3.7	24
43	Interaction of metastasis-inducing S100A4 protein in vivo by fluorescence lifetime imaging microscopy. <i>European Biophysics Journal</i> , 2005 , 34, 19-27	1.9	24
42	Correlative multi-scale cryo-imaging unveils SARS-CoV-2 assembly and egress. <i>Nature Communications</i> , 2021 , 12, 4629	17.4	24
41	Single molecule fluorescence detection and tracking in mammalian cells: the state-of-the-art and future perspectives. <i>International Journal of Molecular Sciences</i> , 2012 , 13, 14742-65	6.3	19
40	A systematic investigation of differential effects of cell culture substrates on the extent of artifacts in single-molecule tracking. <i>PLoS ONE</i> , 2012 , 7, e45655	3.7	17
39	Structure-function relationships and supramolecular organization of the EGFR (epidermal growth factor receptor) on the cell surface. <i>Biochemical Society Transactions</i> , 2014 , 42, 114-9	5.1	16
38	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> , 2019 , 8,	7.9	15
37	Competition between two high- and low-affinity protein-binding sites in myosin VI controls its cellular function. <i>Journal of Biological Chemistry</i> , 2020 , 295, 337-347	5.4	13
36	A tale of the epidermal growth factor receptor: The quest for structural resolution on cells. <i>Methods</i> , 2016 , 95, 86-93	4.6	13
35	Multicolour single molecule imaging on cells using a supercontinuum source. <i>Biomedical Optics Express</i> , 2012 , 3, 400-6	3.5	13

34	CAR modulates E-cadherin dynamics in the presence of adenovirus type 5. <i>PLoS ONE</i> , 2011 , 6, e23056	3.7	13
33	DNA damage alters nuclear mechanics through chromatin reorganization. <i>Nucleic Acids Research</i> , 2021 , 49, 340-353	20.1	13
32	Characterisation of the effects of optical aberrations in single molecule techniques. <i>Biomedical Optics Express</i> , 2016 , 7, 1755-67	3.5	11
31	A highly dynamic F-actin network regulates transport and recycling of micronemes in <i>Toxoplasma gondii</i> vacuoles. <i>Nature Communications</i> , 2019 , 10, 4183	17.4	10
30	Serial cryoFIB/SEM Reveals Cytoarchitectural Disruptions in Leigh Syndrome Patient Cells. <i>Structure</i> , 2021 , 29, 82-87.e3	5.2	10
29	A Brief History of Single-Particle Tracking of the Epidermal Growth Factor Receptor. <i>Methods and Protocols</i> , 2019 , 2,	2.5	8
28	Optics clustered to output unique solutions: a multi-laser facility for combined single molecule and ensemble microscopy. <i>Review of Scientific Instruments</i> , 2011 , 82, 093705	1.7	8
27	A high aperture beamline for vacuum ultraviolet circular dichroism on the srs. <i>Synchrotron Radiation News</i> , 2000 , 13, 21-27	0.6	8
26	Nanometric molecular separation measurements by single molecule photobleaching. <i>Methods</i> , 2015 , 88, 76-80	4.6	7
25	Investigating extracellular in situ EGFR structure and conformational changes using FRET microscopy. <i>Biochemical Society Transactions</i> , 2012 , 40, 189-94	5.1	7
24	A small molecule inhibitor of HER3: a proof-of-concept study. <i>Biochemical Journal</i> , 2020 , 477, 3329-3347	3.8	6
23	Cooperation and Interplay between EGFR Signalling and Extracellular Vesicle Biogenesis in Cancer. <i>Cells</i> , 2020 , 9,	7.9	5
22	The smfBox is an open-source platform for single-molecule FRET. <i>Nature Communications</i> , 2020 , 11, 5641	7.4	5
21	Cluster Analysis of Endogenous HER2 and HER3 Receptors in SKBR3 Cells. <i>Bio-protocol</i> , 2018 , 8, e3096	0.9	5
20	Nuclear myosin VI regulates the spatial organization of mammalian transcription initiation		5
19	The Rho family GEF FARP2 is activated by aPKC ζ to control tight junction formation and polarity. <i>Journal of Cell Science</i> , 2019 , 132,	5.3	4
18	Supramolecular clustering of the cardiac sodium channel Nav1.5 in HEK293F cells, with and without the auxiliary β -subunit. <i>FASEB Journal</i> , 2020 , 34, 3537-3553	0.9	4
17	Determining the geometry of oligomers of the human epidermal growth factor family on cells with . <i>Biochemical Society Transactions</i> , 2015 , 43, 309-14	5.1	4

16	Mechanisms of Action of EGFR Tyrosine Kinase Receptor Incorporated in Extracellular Vesicles. <i>Cells</i> , 2020 , 9,	7.9	4
15	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> , 2015 , 118, 139-52	4.7	3
14	Human epidermal growth factor receptor (HER1) aligned on the plasma membrane adopts key features of Drosophila EGFR asymmetry. <i>Biochemical Society Transactions</i> , 2012 , 40, 184-8	5.1	2
13	Super-resolution Microscopy at Cryogenic Temperatures Using Solid Immersion Lenses. <i>Bio-protocol</i> , 2019 , 9, e3426	0.9	2
12	Binding partners regulate unfolding of myosin VI to activate the molecular motor		2
11	A Targeted and Tuneable DNA Damage Tool Using CRISPR/Cas9. <i>Biomolecules</i> , 2021 , 11,	5.9	2
10	A global sampler of single particle tracking solutions for single molecule microscopy. <i>PLoS ONE</i> , 2019 , 14, e0221865	3.7	1
9	Super-Resolution Fluorescence Microscopy Reveals Clustering Behaviour of Major Outer Membrane Protein. <i>Biology</i> , 2020 , 9,	4.9	1
8	A facility for confocal imaging and microvolume fluorescence lifetime spectroscopy at the SRS. <i>Synchrotron Radiation News</i> , 1998 , 11, 24-30	0.6	1
7	The cell wall regulates dynamics and size of plasma-membrane nanodomains in Arabidopsis		1
6	Correlative Multi-scale Cryo-imaging Unveils SARS-CoV-2 Assembly and Egress 2021 ,		1
5	Myosin VI regulates the spatial organisation of mammalian transcription initiation.. <i>Nature Communications</i> , 2022 , 13, 1346	17.4	1
4	Modulation of EGFR Dimer Stability by Manipulation of Phosphorylation in Situ. <i>Biophysical Journal</i> , 2014 , 106, 101a	2.9	
3	Structure and Stabilisation of Self-Assembling Peptide Filaments 2002 , 113-125		
2	A brief history of the octopus imaging facility to celebrate its 10th anniversary. <i>Journal of Microscopy</i> , 2021 , 281, 3-15	1.9	
1	High-Resolution Microscopy for Structural Studies of Biological Systems in Cells 2018 , 1-10		