

Marisa L Martin-Fernandez

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/237421/publications.pdf>

Version: 2024-02-01

70
papers

2,575
citations

172207

29
h-index

214527

47
g-index

80
all docs

80
docs citations

80
times ranked

3954
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell wall constrains lateral diffusion of plant plasma-membrane proteins. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12805-12810.	3.3	224
2	Affimer proteins are versatile and renewable affinity reagents. ELife, 2017, 6, .	2.8	151
3	Hydrophobic Fluorescent Probes Introduce Artifacts into Single Molecule Tracking Experiments Due to Non-Specific Binding. PLoS ONE, 2013, 8, e74200.	1.1	147
4	EGFR oligomerization organizes kinase-active dimers into competent signalling platforms. Nature Communications, 2016, 7, 13307.	5.8	146
5	Preformed Oligomeric Epidermal Growth Factor Receptors Undergo an Ectodomain Structure Change during Signaling. Biophysical Journal, 2002, 82, 2415-2427.	0.2	110
6	Correlative multi-scale cryo-imaging unveils SARS-CoV-2 assembly and egress. Nature Communications, 2021, 12, 4629.	5.8	108
7	A "pocket guide"™ to total internal reflection fluorescence. Journal of Microscopy, 2013, 252, 16-22.	0.8	105
8	Focal adhesions are sites of integrin extension. Journal of Cell Biology, 2010, 188, 891-903.	2.3	99
9	A Stochastic Model for Electron Multiplication Charge-Coupled Devices " From Theory to Practice. PLoS ONE, 2013, 8, e53671.	1.1	86
10	Single-Molecule Imaging and Fluorescence Lifetime Imaging Microscopy Show Different Structures for High- and Low-Affinity Epidermal Growth Factor Receptors in A431 Cells. Biophysical Journal, 2008, 94, 803-819.	0.2	79
11	The architecture of EGFR's basal complexes reveals autoinhibition mechanisms in dimers and oligomers. Nature Communications, 2018, 9, 4325.	5.8	71
12	High resolution LAPS using amorphous silicon as the semiconductor material. Sensors and Actuators B: Chemical, 2004, 103, 436-441.	4.0	55
13	Inhibitor-induced HER2-HER3 heterodimerisation promotes proliferation through a novel dimer interface. ELife, 2018, 7, .	2.8	55
14	Subcellular and single-molecule imaging of plant fluorescent proteins using total internal reflection fluorescence microscopy (TIRFM). Journal of Experimental Botany, 2011, 62, 5419-5428.	2.4	54
15	Solid immersion microscopy images cells under cryogenic conditions with 12%nm resolution. Communications Biology, 2019, 2, 74.	2.0	49
16	Mutually antagonistic actions of S100A4 and S100A1 on normal and metastatic phenotypes. Oncogene, 2005, 24, 1445-1454.	2.6	48
17	Time-resolved X-ray diffraction studies of myosin head movements in live frog sartorius muscle during isometric and isotonic contractions. Journal of Muscle Research and Cell Motility, 1994, 15, 319-48.	0.9	47
18	Adenovirus Type-5 Entry and Disassembly Followed in Living Cells by FRET, Fluorescence Anisotropy, and FLIM. Biophysical Journal, 2004, 87, 1316-1327.	0.2	46

#	ARTICLE	IF	CITATIONS
19	Effect of Phosphorylation on EGFR Dimer Stability Probed by Single-Molecule Dynamics and FRET/FLIM. <i>Biophysical Journal</i> , 2015, 108, 1013-1026.	0.2	45
20	Automated multidimensional single molecule fluorescence microscopy feature detection and tracking. <i>European Biophysics Journal</i> , 2011, 40, 1167-1186.	1.2	44
21	Measuring EGFR Separations on Cells with ~ 10 nm Resolution via Fluorophore Localization Imaging with Photobleaching. <i>PLoS ONE</i> , 2013, 8, e62331.	1.1	44
22	Ectodomain orientation, conformational plasticity and oligomerization of ErbB1 receptors investigated by molecular dynamics. <i>Journal of Structural Biology</i> , 2009, 167, 117-128.	1.3	42
23	DNA damage alters nuclear mechanics through chromatin reorganization. <i>Nucleic Acids Research</i> , 2021, 49, 340-353.	6.5	38
24	Self-association of Calcium-binding Protein S100A4 and Metastasis. <i>Journal of Biological Chemistry</i> , 2010, 285, 914-922.	1.6	37
25	Human Epidermal Growth Factor Receptor (EGFR) Aligned on the Plasma Membrane Adopts Key Features of <i>Drosophila</i> EGFR Asymmetry. <i>Molecular and Cellular Biology</i> , 2011, 31, 2241-2252.	1.1	37
26	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, 316.	1.8	35
27	The ErbB4 CYT2 variant protects EGFR from ligand-induced degradation to enhance cancer cell motility. <i>Science Signaling</i> , 2014, 7, ra78.	1.6	34
28	Heterodimeric interaction and interfaces of S100A1 and S100P. <i>Biochemical Journal</i> , 2004, 382, 375-383.	1.7	31
29	Multicolour Single Molecule Imaging in Cells with Near Infra-Red Dyes. <i>PLoS ONE</i> , 2012, 7, e36265.	1.1	29
30	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.	5.8	27
31	Serial cryoFIB/SEM Reveals Cytoarchitectural Disruptions in Leigh Syndrome Patient Cells. <i>Structure</i> , 2021, 29, 82-87.e3.	1.6	27
32	Interaction of metastasis-inducing S100A4 protein in vivo by fluorescence lifetime imaging microscopy. <i>European Biophysics Journal</i> , 2005, 34, 19-27.	1.2	25
33	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, 14742-14765.	1.8	25
34	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.	1.1	25
35	The smfBox is an open-source platform for single-molecule FRET. <i>Nature Communications</i> , 2020, 11, 5641.	5.8	25
36	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.	1.6	23

#	ARTICLE	IF	CITATIONS
37	A Brief History of Single-Particle Tracking of the Epidermal Growth Factor Receptor. <i>Methods and Protocols</i> , 2019, 2, 12.	0.9	20
38	Structure–function relationships and supramolecular organization of the EGFR (epidermal growth) Tj ETQq0 0 0 rBT /Overlock 10 Tf	1.6	19
39	Mechanisms of Action of EGFR Tyrosine Kinase Receptor Incorporated in Extracellular Vesicles. <i>Cells</i> , 2020, 9, 2505.	1.8	18
40	Myosin VI regulates the spatial organisation of mammalian transcription initiation. <i>Nature Communications</i> , 2022, 13, 1346.	5.8	17
41	A tale of the epidermal growth factor receptor: The quest for structural resolution on cells. <i>Methods</i> , 2016, 95, 86-93.	1.9	15
42	The Rho-family GEF FARP2 is activated by aPKC ¹ to control polarity and tight junction formation. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	15
43	Supramolecular clustering of the cardiac sodium channel Nav1.5 in HEK293F cells, with and without the auxiliary β 3 subunit. <i>FASEB Journal</i> , 2020, 34, 3537-3553.	0.2	15
44	Multicolour single molecule imaging on cells using a supercontinuum source. <i>Biomedical Optics Express</i> , 2012, 3, 400.	1.5	14
45	CAR Modulates E-Cadherin Dynamics in the Presence of Adenovirus Type 5. <i>PLoS ONE</i> , 2011, 6, e23056.	1.1	14
46	Characterisation of the effects of optical aberrations in single molecule techniques. <i>Biomedical Optics Express</i> , 2016, 7, 1755.	1.5	13
47	Cooperation and Interplay between EGFR Signalling and Extracellular Vesicle Biogenesis in Cancer. <i>Cells</i> , 2020, 9, 2639.	1.8	13
48	Nanometric molecular separation measurements by single molecule photobleaching. <i>Methods</i> , 2015, 88, 76-80.	1.9	11
49	A high aperture beamline for vacuum ultraviolet circular dichroism on the srs. <i>Synchrotron Radiation News</i> , 2000, 13, 21-27.	0.2	10
50	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.	0.6	10
51	A small molecule inhibitor of HER3: a proof-of-concept study. <i>Biochemical Journal</i> , 2020, 477, 3329-3347.	1.7	9
52	Resolving the Effect of Oxygen Vacancies on Co Nanostructures Using Soft XAS/X-PEEM. <i>ACS Catalysis</i> , 2022, 12, 9125-9134.	5.5	9
53	Investigating extracellular in situ EGFR structure and conformational changes using FRET microscopy. <i>Biochemical Society Transactions</i> , 2012, 40, 189-194.	1.6	8
54	Cluster Analysis of Endogenous HER2 and HER3 Receptors in SKBR3 Cells. <i>Bio-protocol</i> , 2018, 8, e3096.	0.2	8

#	ARTICLE	IF	CITATIONS
55	Binding partners regulate unfolding of myosin VI to activate the molecular motor. <i>Biochemical Journal</i> , 2022, 479, 1409-1428.	1.7	8
56	Determining the geometry of oligomers of the human epidermal growth factor family on cells with 7Ånm resolution. <i>Progress in Biophysics and Molecular Biology</i> , 2015, 118, 139-152.	1.4	7
57	Determining the geometry of oligomers of the human epidermal growth factor family on cells with <10 nm resolution. <i>Biochemical Society Transactions</i> , 2015, 43, 309-314.	1.6	5
58	Super-Resolution Fluorescence Microscopy Reveals Clustering Behaviour of Chlamydia pneumoniae's Major Outer Membrane Protein. <i>Biology</i> , 2020, 9, 344.	1.3	5
59	A Targeted and Tuneable DNA Damage Tool Using CRISPR/Cas9. <i>Biomolecules</i> , 2021, 11, 288.	1.8	5
60	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, 184-188.	1.6	4
61	The guidance and adhesion protein FLRT2 dimerizes in cis via dual small-X3-small transmembrane motifs. <i>Structure</i> , 2022, 30, 1354-1365.e5.	1.6	4
62	Super-resolution Microscopy at Cryogenic Temperatures Using Solid Immersion Lenses. <i>Bio-protocol</i> , 2019, 9, e3426.	0.2	3
63	A global sampler of single particle tracking solutions for single molecule microscopy. <i>PLoS ONE</i> , 2019, 14, e0221865.	1.1	2
64	Fluorescence Imaging of Epidermal Growth Factor Receptor Tyrosine Kinase Inhibitor Resistance in Non-Small Cell Lung Cancer. <i>Cancers</i> , 2022, 14, 686.	1.7	2
65	A facility for confocal imaging and microvolume fluorescence lifetime spectroscopy at the SRS. <i>Synchrotron Radiation News</i> , 1998, 11, 24-30.	0.2	1
66	Modulation of EGFR Dimer Stability by Manipulation of Phosphorylation in Situ. <i>Biophysical Journal</i> , 2014, 106, 101a.	0.2	0
67	Oligomerization of the Epidermal Growth Factor Receptor Organizes Kinase-Active Dimers into Competent Signaling Platforms. <i>Biophysical Journal</i> , 2017, 112, 26a-27a.	0.2	0
68	Fluorescence Localisation Imaging with Photobleaching at 5 nm Resolution Reveals the Architecture of Basal EGFR Complexes and Mechanisms of Autoinhibition and Activation. <i>Biophysical Journal</i> , 2018, 114, 201a-202a.	0.2	0
69	A brief history of the octopus imaging facility to celebrate its 10th anniversary. <i>Journal of Microscopy</i> , 2021, 281, 3-15.	0.8	0
70	Structure and Stabilisation of Self-Assembling Peptide Filaments. , 2002, , 113-125.		0