

Gregory Giannone

List of Publications by Year in descending order

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53
papers

6,810
citations

117625

34
h-index

175258

52
g-index

61
all docs

61
docs citations

61
times ranked

7944
citing authors

#	ARTICLE	IF	CITATIONS
1	The cancer glyocalyx mechanically primes integrin-mediated growth and survival. <i>Nature</i> , 2014, 511, 319-325.	27.8	610
2	Periodic Lamellipodial Contractions Correlate with Rearward Actin Waves. <i>Cell</i> , 2004, 116, 431-443.	28.9	536
3	Super-Resolution Imaging Reveals That AMPA Receptors Inside Synapses Are Dynamically Organized in Nanodomains Regulated by PSD95. <i>Journal of Neuroscience</i> , 2013, 33, 13204-13224.	3.6	497
4	Lamellipodial Actin Mechanically Links Myosin Activity with Adhesion-Site Formation. <i>Cell</i> , 2007, 128, 561-575.	28.9	472
5	Two-piconewton slip bond between fibronectin and the cytoskeleton depends on talin. <i>Nature</i> , 2003, 424, 334-337.	27.8	408
6	Dynamic Superresolution Imaging of Endogenous Proteins on Living Cells at Ultra-High Density. <i>Biophysical Journal</i> , 2010, 99, 1303-1310.	0.5	364
7	Integrins β^21 and β^23 exhibit distinct dynamic nanoscale organizations inside focal adhesions. <i>Nature Cell Biology</i> , 2012, 14, 1057-1067.	10.3	339
8	Cytotoxic T Cells Use Mechanical Force to Potentiate Target Cell Killing. <i>Cell</i> , 2016, 165, 100-110.	28.9	329
9	Nonmuscle Myosin IIA-Dependent Force Inhibits Cell Spreading and Drives F-Actin Flow. <i>Biophysical Journal</i> , 2006, 91, 3907-3920.	0.5	255
10	Talin1 is critical for force-dependent reinforcement of initial integrin-cytoskeleton bonds but not tyrosine kinase activation. <i>Journal of Cell Biology</i> , 2003, 163, 409-419.	5.2	246
11	Substrate rigidity and force define form through tyrosine phosphatase and kinase pathways. <i>Trends in Cell Biology</i> , 2006, 16, 213-223.	7.9	238
12	Nanometer Analysis of Cell Spreading on Matrix-Coated Surfaces Reveals Two Distinct Cell States and STEPs. <i>Biophysical Journal</i> , 2004, 86, 1794-1806.	0.5	208
13	Actin dynamics in cell migration. <i>Essays in Biochemistry</i> , 2019, 63, 483-495.	4.7	199
14	Lateral Membrane Waves Constitute a Universal Dynamic Pattern of Motile Cells. <i>Physical Review Letters</i> , 2006, 97, 038102.	7.8	142
15	Dynamic Phase Transitions in Cell Spreading. <i>Physical Review Letters</i> , 2004, 93, 108105.	7.8	129
16	Calcium Rises Locally Trigger Focal Adhesion Disassembly and Enhance Residency of Focal Adhesion Kinase at Focal Adhesions. <i>Journal of Biological Chemistry</i> , 2004, 279, 28715-28723.	3.4	128
17	Nanoscale segregation of actin nucleation and elongation factors determines dendritic spine protrusion. <i>EMBO Journal</i> , 2014, 33, 2745-2764.	7.8	128
18	Activity-independent and subunit-specific recruitment of functional AMPA receptors at neuroligin/neurexin contacts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 20947-20952.	7.1	122

#	ARTICLE	IF	CITATIONS
19	A Highly Specific Gold Nanoprobe for Live-Cell Single-Molecule Imaging. <i>Nano Letters</i> , 2013, 13, 1489-1494.	9.1	116
20	Multi-level molecular clutches in motile cell processes. <i>Trends in Cell Biology</i> , 2009, 19, 475-486.	7.9	114
21	Delphinidin, an active compound of red wine, inhibits endothelial cell apoptosis <i>via</i> nitric oxide pathway and regulation of calcium homeostasis. <i>British Journal of Pharmacology</i> , 2003, 139, 1095-1102.	5.4	94
22	Calcium Oscillations Trigger Focal Adhesion Disassembly in Human U87 Astrocytoma Cells. <i>Journal of Biological Chemistry</i> , 2002, 277, 26364-26371.	3.4	92
23	Localization-based super-resolution imaging meets high-content screening. <i>Nature Methods</i> , 2017, 14, 1184-1190.	19.0	92
24	Organization and dynamics of the actin cytoskeleton during dendritic spine morphological remodeling. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 3053-3073.	5.4	83
25	A tessellation-based colocalization analysis approach for single-molecule localization microscopy. <i>Nature Communications</i> , 2019, 10, 2379.	12.8	76
26	Neurexin-1 ^{Δ2} Binding to Neuroligin-1 Triggers the Preferential Recruitment of PSD-95 versus Gephyrin through Tyrosine Phosphorylation of Neuroligin-1. <i>Cell Reports</i> , 2013, 3, 1996-2007.	6.4	73
27	Identification and super-resolution imaging of ligand-activated receptor dimers in live cells. <i>Scientific Reports</i> , 2013, 3, 2387.	3.3	60
28	Probing the Dynamics of Protein-Protein Interactions at Neuronal Contacts by Optical Imaging. <i>Chemical Reviews</i> , 2008, 108, 1565-1587.	47.7	56
29	Force sensing and generation in cell phases: analyses of complex functions. <i>Journal of Applied Physiology</i> , 2005, 98, 1542-1546.	2.5	53
30	A super-resolution platform for correlative live single-molecule imaging and STED microscopy. <i>Nature Methods</i> , 2019, 16, 1263-1268.	19.0	53
31	High-Content Super-Resolution Imaging of Live Cell by uPAINT. <i>Methods in Molecular Biology</i> , 2013, 950, 95-110.	0.9	43
32	Mechanical coupling between transsynaptic N-cadherin adhesions and actin flow stabilizes dendritic spines. <i>Molecular Biology of the Cell</i> , 2015, 26, 859-873.	2.1	39
33	Mechanism of calcium oscillations in migrating human astrocytoma cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2000, 1498, 273-280.	4.1	38
34	Transient Activations of Rac1 at the Lamellipodium Tip Trigger Membrane Protrusion. <i>Current Biology</i> , 2019, 29, 2852-2866.e5.	3.9	38
35	Molecular motion and tridimensional nanoscale localization of kindlin control integrin activation in focal adhesions. <i>Nature Communications</i> , 2021, 12, 3104.	12.8	37
36	Quantum-Yield-Optimized Fluorophores for Site-Specific Labeling and Super-Resolution Imaging. <i>Journal of the American Chemical Society</i> , 2011, 133, 8090-8093.	13.7	35

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37	Cell stretching is amplified by active actin remodelling to deform and recruit proteins in mechanosensitive structures. <i>Nature Cell Biology</i> , 2020, 22, 1011-1023.	10.3	35
38	Optimized labeling of membrane proteins for applications to super-resolution imaging in confined cellular environments using monomeric streptavidin. <i>Nature Protocols</i> , 2017, 12, 748-763.	12.0	32
39	Forces generated by lamellipodial actin filament elongation regulate the WAVE complex during cell migration. <i>Nature Cell Biology</i> , 2021, 23, 1148-1162.	10.3	30
40	The inner life of integrin adhesion sites: From single molecules to functional macromolecular complexes. <i>Experimental Cell Research</i> , 2019, 379, 235-244.	2.6	23
41	Neurexin/Neurologin Interaction Kinetics Characterized by Counting Single Cell-Surface Attached Quantum Dots. <i>Biophysical Journal</i> , 2009, 97, 480-489.	0.5	22
42	Molecular organization and mechanics of single vimentin filaments revealed by super-resolution imaging. <i>Science Advances</i> , 2022, 8, eabm2696.	10.3	21
43	The journey of integrins and partners in a complex interactions landscape studied by super-resolution microscopy and single protein tracking. <i>Experimental Cell Research</i> , 2016, 343, 28-34.	2.6	19
44	Super-resolution links vinculin localization to function in focal adhesions. <i>Nature Cell Biology</i> , 2015, 17, 845-847.	10.3	14
45	Glutamate involvement in calcium-dependent migration of astrocytoma cells. <i>Cancer Cell International</i> , 2014, 14, 42.	4.1	13
46	Self-Interference (SELI) Microscopy for Live Super-Resolution Imaging and Single Particle Tracking in 3D. <i>Frontiers in Physics</i> , 2019, 7, .	2.1	12
47	Integrin-Functionalised Giant Unilamellar Vesicles via Gel-Assisted Formation: Good Practices and Pitfalls. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6335.	4.1	9
48	FAK-mediated inhibition of vascular smooth muscle cell migration by the tetraspanin CD9. <i>Thrombosis and Haemostasis</i> , 2002, 87, 1043-50.	3.4	7
49	Single-molecule imaging in live cell using gold nanoparticles. <i>Methods in Cell Biology</i> , 2015, 125, 13-27.	1.1	5
50	Using Single-Protein Tracking to Study Cell Migration. <i>Methods in Molecular Biology</i> , 2018, 1749, 291-311.	0.9	4
51	Single-Protein Tracking to Study Protein Interactions During Integrin-Based Migration. <i>Methods in Molecular Biology</i> , 2021, 2217, 85-113.	0.9	1
52	Functional Phases in Cell Attachment and Spreading. , 2005, , 1-13.		0
53	Mechanical Regulation of the WAVE Complex by Actin Elongation in the Lamellipodium. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0