

Daniel Choquet

List of Publications by Citations

Source: <https://exaly.com/author-pdf/9444421/daniel-choquet-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

181
papers

16,422
citations

70
h-index

126
g-index

218
ext. papers

18,655
ext. citations

11.6
avg, IF

6.73
L-index

#	Paper	IF	Citations
181	Extracellular matrix rigidity causes strengthening of integrin-cytoskeleton linkages. <i>Cell</i> , 1997 , 88, 39-48	56.2	1068
180	The interaction between Stargazin and PSD-95 regulates AMPA receptor surface trafficking. <i>Neuron</i> , 2007 , 53, 719-34	13.9	436
179	Regulation of AMPA receptor lateral movements. <i>Nature</i> , 2002 , 417, 649-53	50.4	430
178	Cytoplasmic domain heterogeneity and functions of IgG Fc receptors in B lymphocytes. <i>Science</i> , 1992 , 256, 1808-12	33.3	417
177	Brain extracellular matrix affects AMPA receptor lateral mobility and short-term synaptic plasticity. <i>Nature Neuroscience</i> , 2009 , 12, 897-904	25.5	393
176	Surface mobility of postsynaptic AMPARs tunes synaptic transmission. <i>Science</i> , 2008 , 320, 201-5	33.3	372
175	Super-resolution imaging reveals that AMPA receptors inside synapses are dynamically organized in nanodomains regulated by PSD95. <i>Journal of Neuroscience</i> , 2013 , 33, 13204-24	6.6	367
174	Calcium influx through nicotinic receptor in rat central neurons: its relevance to cellular regulation. <i>Neuron</i> , 1992 , 8, 135-43	13.9	355
173	Differential activity-dependent regulation of the lateral mobilities of AMPA and NMDA receptors. <i>Nature Neuroscience</i> , 2004 , 7, 695-6	25.5	329
172	The dynamic synapse. <i>Neuron</i> , 2013 , 80, 691-703	13.9	324
171	The role of receptor diffusion in the organization of the postsynaptic membrane. <i>Nature Reviews Neuroscience</i> , 2003 , 4, 251-65	13.5	323
170	Single metallic nanoparticle imaging for protein detection in cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 11350-5	11.5	303
169	Dynamic superresolution imaging of endogenous proteins on living cells at ultra-high density. <i>Biophysical Journal</i> , 2010 , 99, 1303-10	2.9	301
168	Direct imaging of lateral movements of AMPA receptors inside synapses. <i>EMBO Journal</i> , 2003 , 22, 4656-65	6.5	297
167	CaMKII triggers the diffusional trapping of surface AMPARs through phosphorylation of stargazin. <i>Neuron</i> , 2010 , 67, 239-52	13.9	286
166	Extracellular interactions between GluR2 and N-cadherin in spine regulation. <i>Neuron</i> , 2007 , 54, 461-77	13.9	283
165	Integrins α and β exhibit distinct dynamic nanoscale organizations inside focal adhesions. <i>Nature Cell Biology</i> , 2012 , 14, 1057-67	23.4	275

164	NMDA receptor surface mobility depends on NR2A-2B subunits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 18769-74	11.5	263
163	Diffusional trapping of GluR1 AMPA receptors by input-specific synaptic activity. <i>Neuron</i> , 2007 , 54, 447-60	13.9	251
162	Surface trafficking of receptors between synaptic and extrasynaptic membranes: and yet they do move!. <i>Trends in Neurosciences</i> , 2005 , 28, 133-9	13.3	237
161	Endocytic trafficking and recycling maintain a pool of mobile surface AMPA receptors required for synaptic potentiation. <i>Neuron</i> , 2009 , 63, 92-105	13.9	222
160	SR-Tesseler: a method to segment and quantify localization-based super-resolution microscopy data. <i>Nature Methods</i> , 2015 , 12, 1065-71	21.6	220
159	Fast and reversible trapping of surface glycine receptors by gephyrin. <i>Nature Neuroscience</i> , 2001 , 4, 253-60	13.5	219
158	The stress hormone corticosterone conditions AMPAR surface trafficking and synaptic potentiation. <i>Nature Neuroscience</i> , 2008 , 11, 868-70	25.5	212
157	New concepts in synaptic biology derived from single-molecule imaging. <i>Neuron</i> , 2008 , 59, 359-74	13.9	208
156	Ligand binding regulates the directed movement of beta1 integrins on fibroblasts. <i>Nature</i> , 1996 , 383, 438-40	50.4	208
155	Single nanoparticle photothermal tracking (SNaPT) of 5-nm gold beads in live cells. <i>Biophysical Journal</i> , 2006 , 91, 4598-604	2.9	202
154	The calcium current activated by T cell receptor and store depletion in human lymphocytes is absent in a primary immunodeficiency. <i>Journal of Biological Chemistry</i> , 1994 , 269, 32327-35	5.4	196
153	CYFIP1 coordinates mRNA translation and cytoskeleton remodeling to ensure proper dendritic spine formation. <i>Neuron</i> , 2013 , 79, 1169-82	13.9	181
152	Surface trafficking of neurotransmitter receptor: comparison between single-molecule/quantum dot strategies. <i>Journal of Neuroscience</i> , 2007 , 27, 12433-7	6.6	171
151	Hippocampal LTP and contextual learning require surface diffusion of AMPA receptors. <i>Nature</i> , 2017 , 549, 384-388	50.4	164
150	Learning, AMPA receptor mobility and synaptic plasticity depend on n-cofilin-mediated actin dynamics. <i>EMBO Journal</i> , 2010 , 29, 1889-902	13	164
149	NMDA receptor surface trafficking and synaptic subunit composition are developmentally regulated by the extracellular matrix protein Reelin. <i>Journal of Neuroscience</i> , 2007 , 27, 10165-75	6.6	162
148	Matrix metalloproteinase-9 controls NMDA receptor surface diffusion through integrin beta1 signaling. <i>Journal of Neuroscience</i> , 2009 , 29, 6007-12	6.6	154
147	Regulation of AMPA receptor surface diffusion by PSD-95 slots. <i>Current Opinion in Neurobiology</i> , 2012 , 22, 453-60	7.6	145

146	Receptor activation and homer differentially control the lateral mobility of metabotropic glutamate receptor 5 in the neuronal membrane. <i>Journal of Neuroscience</i> , 2002 , 22, 3910-20	6.6	141
145	AMPA and NMDA glutamate receptor trafficking: multiple roads for reaching and leaving the synapse. <i>Cell and Tissue Research</i> , 2006 , 326, 423-38	4.2	130
144	A three-step model for the synaptic recruitment of AMPA receptors. <i>Molecular and Cellular Neurosciences</i> , 2011 , 46, 1-8	4.8	129
143	A primary T-cell immunodeficiency associated with defective transmembrane calcium influx. <i>Blood</i> , 1995 , 85, 1053-1062	2.2	127
142	A molecular clutch between the actin flow and N-cadherin adhesions drives growth cone migration. <i>Journal of Neuroscience</i> , 2008 , 28, 5879-90	6.6	126
141	Control of the postsynaptic membrane viscosity. <i>Journal of Neuroscience</i> , 2009 , 29, 2926-37	6.6	122
140	Wavelet analysis for single molecule localization microscopy. <i>Optics Express</i> , 2012 , 20, 2081-95	3.3	121
139	Dynamics of ligand-induced, Rac1-dependent anchoring of cadherins to the actin cytoskeleton. <i>Journal of Cell Biology</i> , 2002 , 157, 469-79	7.3	111
138	Heterogeneity of AMPA receptor trafficking and molecular interactions revealed by superresolution analysis of live cell imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 17052-7	11.5	109
137	Mechanism of 4-aminopyridine action on voltage-gated potassium channels in lymphocytes. <i>Journal of General Physiology</i> , 1992 , 99, 217-40	3.4	105
136	Mapping the dynamics and nanoscale organization of synaptic adhesion proteins using monomeric streptavidin. <i>Nature Communications</i> , 2016 , 7, 10773	17.4	102
135	Surface trafficking of N-methyl-D-aspartate receptors: physiological and pathological perspectives. <i>Neuroscience</i> , 2009 , 158, 4-18	3.9	102
134	Neurexin-neuroigin adhesions capture surface-diffusing AMPA receptors through PSD-95 scaffolds. <i>Journal of Neuroscience</i> , 2011 , 31, 13500-15	6.6	102
133	Activity-independent and subunit-specific recruitment of functional AMPA receptors at neurexin/neuroigin contacts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 20947-52	11.5	102
132	Glutamate-induced AMPA receptor desensitization increases their mobility and modulates short-term plasticity through unbinding from Stargazin. <i>Neuron</i> , 2015 , 85, 787-803	13.9	100
131	Cross-linking of IgG receptors inhibits membrane immunoglobulin-stimulated calcium influx in B lymphocytes. <i>Journal of Cell Biology</i> , 1993 , 121, 355-63	7.3	100
130	PSD-95 expression controls L-DOPA dyskinesia through dopamine D1 receptor trafficking. <i>Journal of Clinical Investigation</i> , 2012 , 122, 3977-89	15.9	100
129	Biomimetic divalent ligands for the acute disruption of synaptic AMPAR stabilization. <i>Nature Chemical Biology</i> , 2011 , 7, 81-91	11.7	92

128	Control of autophagosome axonal retrograde flux by presynaptic activity unveiled using botulinum neurotoxin type a. <i>Journal of Neuroscience</i> , 2015 , 35, 6179-94	6.6	91
127	Nanoscale segregation of actin nucleation and elongation factors determines dendritic spine protrusion. <i>EMBO Journal</i> , 2014 , 33, 2745-64	13	89
126	Converting juvenile into adult plasticity: a role for the brain's extracellular matrix. <i>European Journal of Neuroscience</i> , 2010 , 31, 2156-65	3.5	89
125	The (YXXL/I)2 signalling motif found in the cytoplasmic segments of the bovine leukaemia virus envelope protein and Epstein-Barr virus latent membrane protein 2A can elicit early and late lymphocyte activation events.. <i>EMBO Journal</i> , 1993 , 12, 5105-5112	13	88
124	Recruitment of the kainate receptor subunit glutamate receptor 6 by cadherin/catenin complexes. <i>Journal of Neuroscience</i> , 2002 , 22, 6426-36	6.6	87
123	Cell migration as a five-step cycle. <i>Biochemical Society Symposia</i> , 1999 , 65, 233-43		87
122	Real-time analysis and visualization for single-molecule based super-resolution microscopy. <i>PLoS ONE</i> , 2013 , 8, e62918	3.7	86
121	Cyclic AMP-modulated potassium channels in murine B cells and their precursors. <i>Science</i> , 1987 , 235, 1211-4	33.3	85
120	Fast AMPAR trafficking for a high-frequency synaptic transmission. <i>European Journal of Neuroscience</i> , 2010 , 32, 250-60	3.5	83
119	Ion channel blockers inhibit B cell activation at a precise stage of the G1 phase of the cell cycle. Possible involvement of K ⁺ channels. <i>Journal of Immunology</i> , 1990 , 144, 2038-45	5.3	78
118	Pre-post synaptic alignment through neuroligin-1 tunes synaptic transmission efficiency. <i>ELife</i> , 2018 , 7,	8.9	78
117	Unified quantitative model of AMPA receptor trafficking at synapses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 3522-7	11.5	74
116	Dynamic and specific interaction between synaptic NR2-NMDA receptor and PDZ proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 19561-6	11.5	73
115	Fc gamma RII expression in resting and activated B lymphocytes. <i>European Journal of Immunology</i> , 1989 , 19, 1379-85	6.1	73
114	Mobility of calcium channels in the presynaptic membrane. <i>Neuron</i> , 2015 , 86, 672-9	13.9	71
113	ATP P2X receptors downregulate AMPA receptor trafficking and postsynaptic efficacy in hippocampal neurons. <i>Neuron</i> , 2014 , 83, 417-430	13.9	70
112	Trimers of the fibronectin cell adhesion domain localize to actin filament bundles and undergo rearward translocation. <i>Journal of Cell Science</i> , 2002 , 115, 2581-2590	5.3	70
111	Ankyrin G restricts ion channel diffusion at the axonal initial segment before the establishment of the diffusion barrier. <i>Journal of Cell Biology</i> , 2010 , 191, 383-95	7.3	66

110	Regulation of N-cadherin dynamics at neuronal contacts by ligand binding and cytoskeletal coupling. <i>Molecular Biology of the Cell</i> , 2006 , 17, 862-75	3.5	64
109	Trimers of the fibronectin cell adhesion domain localize to actin filament bundles and undergo rearward translocation. <i>Journal of Cell Science</i> , 2002 , 115, 2581-90	5.3	64
108	A Septin-Dependent Diffusion Barrier at Dendritic Spine Necks. <i>PLoS ONE</i> , 2014 , 9, e113916	3.7	63
107	Role of associated gamma-chain in tyrosine kinase activation via murine Fc gamma RIII.. <i>EMBO Journal</i> , 1992 , 11, 2747-2757	13	63
106	Localization-based super-resolution imaging meets high-content screening. <i>Nature Methods</i> , 2017 , 14, 1184-1190	21.6	61
105	Altered surface trafficking of presynaptic cannabinoid type 1 receptor in and out synaptic terminals parallels receptor desensitization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 18596-601	11.5	61
104	Neddylation inhibition impairs spine development, destabilizes synapses and deteriorates cognition. <i>Nature Neuroscience</i> , 2015 , 18, 239-51	25.5	58
103	Neurexin-1 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	10.6	58
102	Shisa6 traps AMPA receptors at postsynaptic sites and prevents their desensitization during synaptic activity. <i>Nature Communications</i> , 2016 , 7, 10682	17.4	58
101	Linking Nanoscale Dynamics of AMPA Receptor Organization to Plasticity of Excitatory Synapses and Learning. <i>Journal of Neuroscience</i> , 2018 , 38, 9318-9329	6.6	58
100	Synaptically released matrix metalloproteinase activity in control of structural plasticity and the cell surface distribution of GluA1-AMPA receptors. <i>PLoS ONE</i> , 2014 , 9, e98274	3.7	56
99	Lengthening of the Stargazin Cytoplasmic Tail Increases Synaptic Transmission by Promoting Interaction to Deeper Domains of PSD-95. <i>Neuron</i> , 2015 , 86, 475-89	13.9	54
98	Regulation of AMPA receptor surface trafficking and synaptic plasticity by a cognitive enhancer and antidepressant molecule. <i>Molecular Psychiatry</i> , 2013 , 18, 471-84	15.1	54
97	Probing the dynamics of protein-protein interactions at neuronal contacts by optical imaging. <i>Chemical Reviews</i> , 2008 , 108, 1565-87	68.1	54
96	Nucleation and growth of cadherin adhesions. <i>Experimental Cell Research</i> , 2007 , 313, 4025-40	4.2	54
95	NrCAM coupling to the cytoskeleton depends on multiple protein domains and partitioning into lipid rafts. <i>Molecular Biology of the Cell</i> , 2004 , 15, 4695-709	3.5	54
94	Self-propelling vesicles define glycolysis as the minimal energy machinery for neuronal transport. <i>Nature Communications</i> , 2016 , 7, 13233	17.4	53
93	Semisynthetic fluorescent pH sensors for imaging exocytosis and endocytosis. <i>Nature Communications</i> , 2017 , 8, 1412	17.4	53

92	Different patterns of calcium signaling triggered through two components of the B lymphocyte antigen receptor. <i>Journal of Biological Chemistry</i> , 1994 , 269, 6491-7	5.4	53
91	Linking glutamate receptor movements and synapse function. <i>Science</i> , 2020 , 368,	33.3	52
90	The next generation of approaches to investigate the link between synaptic plasticity and learning. <i>Nature Neuroscience</i> , 2019 , 22, 1536-1543	25.5	51
89	The (YXXL/I)2 signalling motif found in the cytoplasmic segments of the bovine leukaemia virus envelope protein and Epstein-Barr virus latent membrane protein 2A can elicit early and late lymphocyte activation events. <i>EMBO Journal</i> , 1993 , 12, 5105-12	13	46
88	Fast turnover of L1 adhesions in neuronal growth cones involving both surface diffusion and exo/endocytosis of L1 molecules. <i>Molecular Biology of the Cell</i> , 2007 , 18, 3131-43	3.5	45
87	Dual effects of serotonin on a voltage-gated conductance in lymphocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1988 , 85, 4557-61	11.5	44
86	Differential Nanoscale Topography and Functional Role of GluN2-NMDA Receptor Subtypes at Glutamatergic Synapses. <i>Neuron</i> , 2018 , 100, 106-119.e7	13.9	44
85	Synaptic structure and diffusion dynamics of synaptic receptors. <i>Biology of the Cell</i> , 2003 , 95, 465-76	3.5	43
84	Active surface transport of metabotropic glutamate receptors through binding to microtubules and actin flow. <i>Journal of Cell Science</i> , 2003 , 116, 5015-22	5.3	42
83	miR-92a regulates expression of synaptic GluA1-containing AMPA receptors during homeostatic scaling. <i>Nature Neuroscience</i> , 2014 , 17, 1040-2	25.5	41
82	CaMKII-dependent phosphorylation of GluK5 mediates plasticity of kainate receptors. <i>EMBO Journal</i> , 2013 , 32, 496-510	13	41
81	Differential regulation of voltage- and calcium-activated potassium channels in human B lymphocytes. <i>Journal of Immunology</i> , 1992 , 148, 3361-8	5.3	41
80	Super-resolved and dynamic imaging of membrane proteins in plant cells reveal contrasting kinetic profiles and multiple confinement mechanisms. <i>Molecular Plant</i> , 2015 , 8, 339-42	14.4	39
79	Nanoscale co-organization and coactivation of AMPAR, NMDAR, and mGluR at excitatory synapses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 14503-14511	11.5	38
78	Does beta-alanine activate more than one chloride channel associated receptor?. <i>Neuroscience Letters</i> , 1988 , 84, 329-34	3.3	38
77	Receptor concentration and diffusivity control multivalent binding of Sv40 to membrane bilayers. <i>PLoS Computational Biology</i> , 2013 , 9, e1003310	5	36
76	Modulation of AMPA receptor surface diffusion restores hippocampal plasticity and memory in Huntington's disease models. <i>Nature Communications</i> , 2018 , 9, 4272	17.4	36
75	Quantum-yield-optimized fluorophores for site-specific labeling and super-resolution imaging. <i>Journal of the American Chemical Society</i> , 2011 , 133, 8090-3	16.4	33

74	The excitatory postsynaptic density is a size exclusion diffusion environment. <i>Neuropharmacology</i> , 2009 , 56, 30-6	5.5	33
73	Regulation of ITAM signaling by specific sequences in Ig-beta B cell antigen receptor subunit. <i>Journal of Biological Chemistry</i> , 1996 , 271, 23786-91	5.4	32
72	Spatial and Temporal Regulation of Receptor Endocytosis in Neuronal Dendrites Revealed by Imaging of Single Vesicle Formation. <i>Cell Reports</i> , 2017 , 18, 1840-1847	10.6	31
71	CaMKII Metaplasticity Drives Aβ Oligomer-Mediated Synaptotoxicity. <i>Cell Reports</i> , 2018 , 23, 3137-3145	10.6	31
70	Ion channels and B cell mitogenesis. <i>Molecular Immunology</i> , 1990 , 27, 1259-68	4.3	31
69	Pattern of potassium channel expression in proliferating B lymphocytes depends upon the mode of activation. <i>Journal of Immunology</i> , 1993 , 151, 2462-70	5.3	31
68	Synaptic adhesion molecule IgSF11 regulates synaptic transmission and plasticity. <i>Nature Neuroscience</i> , 2016 , 19, 84-93	25.5	30
67	Multiple routes for glutamate receptor trafficking: surface diffusion and membrane traffic cooperate to bring receptors to synapses. <i>Science Signaling</i> , 2006 , 2006, pe13	8.8	30
66	Recycling endosomes undergo rapid closure of a fusion pore on exocytosis in neuronal dendrites. <i>Journal of Neuroscience</i> , 2014 , 34, 11106-18	6.6	29
65	High-content super-resolution imaging of live cell by uPAINT. <i>Methods in Molecular Biology</i> , 2013 , 950, 95-110	1.4	29
64	Botulinum neurotoxin type-A enters a non-recycling pool of synaptic vesicles. <i>Scientific Reports</i> , 2016 , 6, 19654	4.9	29
63	Advanced imaging and labelling methods to decipher brain cell organization and function. <i>Nature Reviews Neuroscience</i> , 2021 , 22, 237-255	13.5	28
62	A super-resolution platform for correlative live single-molecule imaging and STED microscopy. <i>Nature Methods</i> , 2019 , 16, 1263-1268	21.6	27
61	Measurement and characteristics of neurotransmitter receptor surface trafficking (Review). <i>Molecular Membrane Biology</i> , 2008 , 25, 344-52	3.4	27
60	Weak effect of membrane diffusion on the rate of receptor accumulation at adhesive contacts. <i>Biophysical Journal</i> , 2005 , 89, L40-2	2.9	27
59	Neuronal Activity and Intracellular Calcium Levels Regulate Intracellular Transport of Newly Synthesized AMPAR. <i>Cell Reports</i> , 2018 , 24, 1001-1012.e3	10.6	25
58	Review on the role of AMPA receptor nano-organization and dynamic in the properties of synaptic transmission. <i>Neurophotonics</i> , 2016 , 3, 041811	3.9	24
57	Novel diode-pumped infrared tunable laser system for multi-photon microscopy. <i>Microscopy Research and Technique</i> , 2004 , 63, 23-6	2.8	23

56	SnapShot: receptor dynamics at plastic synapses. <i>Cell</i> , 2014 , 157, 1738-1738.e1	56.2	22
55	Caged mono- and divalent ligands for light-assisted disruption of PDZ domain-mediated interactions. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4580-3	16.4	21
54	TNF- α influences the lateral dynamics of TNF receptor I in living cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2012 , 1823, 1984-9	4.9	21
53	AMPA receptor nanoscale dynamic organization and synaptic plasticities. <i>Current Opinion in Neurobiology</i> , 2020 , 63, 137-145	7.6	20
52	Inhibition of PDZ domain-mediated interactions. <i>Drug Discovery Today: Technologies</i> , 2013 , 10, e531-40	7.1	20
51	Dopamine-dependent long-term depression at subthalamo-nigral synapses is lost in experimental parkinsonism. <i>Journal of Neuroscience</i> , 2013 , 33, 14331-41	6.6	20
50	Neurexin/neuroligin interaction kinetics characterized by counting single cell-surface attached quantum dots. <i>Biophysical Journal</i> , 2009 , 97, 480-9	2.9	20
49	Role of associated gamma-chain in tyrosine kinase activation via murine Fc gamma RIII. <i>EMBO Journal</i> , 1992 , 11, 2747-57	13	20
48	A two-state model for the diffusion of the A2A adenosine receptor in hippocampal neurons: agonist-induced switch to slow mobility is modified by synapse-associated protein 102 (SAP102). <i>Journal of Biological Chemistry</i> , 2014 , 289, 9263-74	5.4	19
47	Modulation of voltage-dependent potassium channels in B lymphocytes. <i>Biochemical Pharmacology</i> , 1988 , 37, 3797-802	6	19
46	The Munc18-1 domain 3a hinge-loop controls syntaxin-1A nanodomain assembly and engagement with the SNARE complex during secretory vesicle priming. <i>Journal of Cell Biology</i> , 2016 , 214, 847-58	7.3	17
45	Neuroscience. More AMPAR garnish. <i>Science</i> , 2009 , 323, 1295-6	33.3	17
44	NMDAR-dependent long-term depression is associated with increased short term plasticity through autophagy mediated loss of PSD-95. <i>Nature Communications</i> , 2021 , 12, 2849	17.4	17
43	P2X-mediated AMPA receptor internalization and synaptic depression is controlled by two CaMKII phosphorylation sites on GluA1 in hippocampal neurons. <i>Scientific Reports</i> , 2016 , 6, 31836	4.9	17
42	Engineering selective competitors for the discrimination of highly conserved protein-protein interaction modules. <i>Nature Communications</i> , 2019 , 10, 4521	17.4	15
41	Functional recruitment of dynamin requires multimeric interactions for efficient endocytosis. <i>Nature Communications</i> , 2019 , 10, 4462	17.4	14
40	Regulation of interleukin-2 production and phosphatidylserine synthesis in Jurkat T lymphocytes by K ⁺ channel antagonists. <i>Immunopharmacology</i> , 1990 , 20, 97-103		14
39	Chemical synthesis, structural and functional characterisation of noxiustoxin, a powerful blocker of lymphocyte voltage-dependent K ⁺ channels. <i>Biochemical and Biophysical Research Communications</i> , 1995 , 213, 901-7	3.4	13

38	Characterization of SynCAM surface trafficking using a SynCAM derived ligand with high homophilic binding affinity. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 359, 655-9	3.4	12
37	Fluorescence microscopy of single autofluorescent proteins for cellular biology. <i>Comptes Rendus Physique</i> , 2002 , 3, 645-656	1.4	12
36	CaMKII activation persistently segregates postsynaptic proteins via liquid phase separation. <i>Nature Neuroscience</i> , 2021 , 24, 777-785	25.5	12
35	TSPAN5 Enriched Microdomains Provide a Platform for Dendritic Spine Maturation through Neuroligin-1 Clustering. <i>Cell Reports</i> , 2019 , 29, 1130-1146.e8	10.6	11
34	On the stiffness of the natural actin filament decorated with alexa fluor tropomyosin. <i>Biophysical Chemistry</i> , 2003 , 104, 469-76	3.5	11
33	The 2014 Nobel Prize in Chemistry: a large-scale prize for achievements on the nanoscale. <i>Neuron</i> , 2014 , 84, 1116-9	13.9	10
32	Effects of chemical modification, tropomyosin, and myosin subfragment 1 on the yield strength and critical concentration of F-actin. <i>Biochemistry</i> , 2002 , 41, 5907-12	3.2	9
31	Rhodamine phalloidin F-actin: critical concentration versus tensile strength. <i>FEBS Journal</i> , 1999 , 263, 270-5		9
30	Single-particle tracking uncovers dynamics of glutamate-induced retrograde transport of NF- κ B p65 in living neurons. <i>Neurophotonics</i> , 2016 , 3, 041804	3.9	8
29	Robust single-molecule approach for counting autofluorescent proteins. <i>Journal of Biomedical Optics</i> , 2008 , 13, 031216	3.5	8
28	Ligand-independent activity of the ghrelin receptor modulates AMPA receptor trafficking and supports memory formation. <i>Science Signaling</i> , 2021 , 14,	8.8	8
27	On the elastic properties of tetramethylrhodamine F-actin. <i>Biophysical Chemistry</i> , 2001 , 92, 201-7	3.5	6
26	Lattice light sheet microscopy and photo-stimulation in brain slices 2019 ,		5
25	Bioorthogonal labeling of transmembrane proteins with non-canonical amino acids unveils masked epitopes in live neurons. <i>Nature Communications</i> , 2021 , 12, 6715	17.4	5
24	Tracking receptors using individual fluorescent and nonfluorescent nanolabels. <i>Cold Spring Harbor Protocols</i> , 2014 , 2014, 207-13	1.2	4
23	Optical Tweezers and Fluorescence Recovery After Photo-Bleaching to Measure Molecular Interactions at the Cell Surface. <i>Cellular and Molecular Bioengineering</i> , 2008 , 1, 301-311	3.9	4
22	T cell activation deficiencies. <i>Clinical Immunology and Immunopathology</i> , 1995 , 76, S163-4		4
21	Nanoscale synapse organization and dysfunction in neurodevelopmental disorders. <i>Neurobiology of Disease</i> , 2021 , 158, 105453	7.5	4

20	Dendritic autophagy degrades postsynaptic proteins and is required for long-term synaptic depression in mice.. <i>Nature Communications</i> , 2022 , 13, 680	17.4	3
19	Correlating STED and synchrotron XRF nano-imaging unveils cosegregation of metals and cytoskeleton proteins in dendrites. <i>ELife</i> , 2020 , 9,	8.9	3
18	Engineering paralog-specific PSD-95 synthetic binders as potent and minimally invasive imaging probes		3
17	Tracking receptors by imaging single molecules. <i>Cold Spring Harbor Protocols</i> , 2008 , 2008, pdb.top25	1.2	2
16	Simultaneous excitation of multiple fluororophores with a compact femtosecond laser 2006 , 6089, 135		2
15	Pharmacological modulation of AMPA receptor surface diffusion restores hippocampal synaptic plasticity and memory in Huntington's disease		2
14	AMPA-Dependent Synaptic Plasticity Initiates Cortical Remapping and Adaptive Behaviors during Sensory Experience. <i>Cell Reports</i> , 2020 , 32, 108097	10.6	2
13	Bioorthogonal labeling of transmembrane proteins with non-canonical amino acids allows access to masked epitopes in live neurons		2
12	Investigating AMPA Receptor Diffusion and Nanoscale Organization at Synapses with High-Density Single-Molecule Tracking Methods. <i>Neuromethods</i> , 2014 , 59-74	0.4	2
11	Lateral Dynamics of TNF Receptor I in Living Cells Studied with Single-Particle Tracking and Photoactivatable Fluorescent Probes. <i>Biophysical Journal</i> , 2012 , 102, 31a	2.9	1
10	Brain extracellular matrix affects AMPA receptor lateral mobility and short-term synaptic plasticity. <i>E-Neuroforum</i> , 2009 , 15, 94-95		1
9	Specific nanoscale synaptic reshuffling and control of short-term plasticity following NMDAR- and P2XR-dependent Long-Term Depression		1
8	MDGAs are fast-diffusing molecules that delay excitatory synapse development by altering neuroligin behavior		1
7	The vSNAREs VAMP2 and VAMP4 control recycling and intracellular sorting of post-synaptic receptors in neuronal dendrites. <i>Cell Reports</i> , 2021 , 36, 109678	10.6	1
6	Eyes Wide Open on AMPAR Trafficking during Motor Learning. <i>Neuron</i> , 2020 , 105, 764-766	13.9	
5	Exchange Dynamics of Dynamin Measured in Living Cells During Endocytic Vesicle Formation. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1240-1241	0.5	
4	Lateral Diffusion of Excitatory Neurotransmitter Receptors During Synaptogenesis 2006 , 221-232		
3	Comparative analysis of infrared fluorescence generation in multiphoton spectroscopy 2004 , 5323, 314		

- 2 Modulation of the metabotropic glutamate receptor mGluR5a anchorage to the cytoskeleton characterised by videomicroscopy and tracking of single particles manipulated with optical tweezers. *Biology of the Cell*, **1999**, 91, 237-238 3.5
- 1 Surface Trafficking of Membrane Proteins at Excitatory and Inhibitory Synapses **2008**, 369-406