

# Daniel Choquet

## 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.

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	Dendritic autophagy degrades postsynaptic proteins and is required for long-term synaptic depression in mice.. <i>Nature Communications</i> , <b>2022</b> , 13, 680	17.4	3
180	Bioorthogonal labeling of transmembrane proteins with non-canonical amino acids unveils masked epitopes in live neurons. <i>Nature Communications</i> , <b>2021</b> , 12, 6715	17.4	5
179	Advanced imaging and labelling methods to decipher brain cell organization and function. <i>Nature Reviews Neuroscience</i> , <b>2021</b> , 22, 237-255	13.5	28
178	CaMKII activation persistently segregates postsynaptic proteins via liquid phase separation. <i>Nature Neuroscience</i> , <b>2021</b> , 24, 777-785	25.5	12
177	NMDAR-dependent long-term depression is associated with increased short term plasticity through autophagy mediated loss of PSD-95. <i>Nature Communications</i> , <b>2021</b> , 12, 2849	17.4	17
176	Ligand-independent activity of the ghrelin receptor modulates AMPA receptor trafficking and supports memory formation. <i>Science Signaling</i> , <b>2021</b> , 14,	8.8	8
175	The vSNAREs VAMP2 and VAMP4 control recycling and intracellular sorting of post-synaptic receptors in neuronal dendrites. <i>Cell Reports</i> , <b>2021</b> , 36, 109678	10.6	1
174	Nanoscale synapse organization and dysfunction in neurodevelopmental disorders. <i>Neurobiology of Disease</i> , <b>2021</b> , 158, 105453	7.5	4
173	AMPA receptor nanoscale dynamic organization and synaptic plasticities. <i>Current Opinion in Neurobiology</i> , <b>2020</b> , 63, 137-145	7.6	20
172	Linking glutamate receptor movements and synapse function. <i>Science</i> , <b>2020</b> , 368,	33.3	52
171	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> , <b>2020</b> , 117, 14503-14511	11.5	38
170	Eyes Wide Open on AMPAR Trafficking during Motor Learning. <i>Neuron</i> , <b>2020</b> , 105, 764-766	13.9	
169	Correlating STED and synchrotron XRF nano-imaging unveils cosegregation of metals and cytoskeleton proteins in dendrites. <i>ELife</i> , <b>2020</b> , 9,	8.9	3
168	AMPA-Dependent Synaptic Plasticity Initiates Cortical Remapping and Adaptive Behaviors during Sensory Experience. <i>Cell Reports</i> , <b>2020</b> , 32, 108097	10.6	2
167	The next generation of approaches to investigate the link between synaptic plasticity and learning. <i>Nature Neuroscience</i> , <b>2019</b> , 22, 1536-1543	25.5	51
166	Functional recruitment of dynamin requires multimeric interactions for efficient endocytosis. <i>Nature Communications</i> , <b>2019</b> , 10, 4462	17.4	14
165	Engineering selective competitors for the discrimination of highly conserved protein-protein interaction modules. <i>Nature Communications</i> , <b>2019</b> , 10, 4521	17.4	15

164	Exchange Dynamics of Dynamin Measured in Living Cells During Endocytic Vesicle Formation. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1240-1241	0.5	
163	TSPAN5 Enriched Microdomains Provide a Platform for Dendritic Spine Maturation through Neuroligin-1 Clustering. <i>Cell Reports</i> , <b>2019</b> , 29, 1130-1146.e8	10.6	11
162	A super-resolution platform for correlative live single-molecule imaging and STED microscopy. <i>Nature Methods</i> , <b>2019</b> , 16, 1263-1268	21.6	27
161	Lattice light sheet microscopy and photo-stimulation in brain slices <b>2019</b> ,		5
160	Neuronal Activity and Intracellular Calcium Levels Regulate Intracellular Transport of Newly Synthesized AMPAR. <i>Cell Reports</i> , <b>2018</b> , 24, 1001-1012.e3	10.6	25
159	CaMKII Metaplasticity Drives Aβ Oligomer-Mediated Synaptotoxicity. <i>Cell Reports</i> , <b>2018</b> , 23, 3137-3145	10.6	31
158	Pre-post synaptic alignment through neuroligin-1 tunes synaptic transmission efficiency. <i>ELife</i> , <b>2018</b> , 7,	8.9	78
157	Differential Nanoscale Topography and Functional Role of GluN2-NMDA Receptor Subtypes at Glutamatergic Synapses. <i>Neuron</i> , <b>2018</b> , 100, 106-119.e7	13.9	44
156	Modulation of AMPA receptor surface diffusion restores hippocampal plasticity and memory in Huntington's disease models. <i>Nature Communications</i> , <b>2018</b> , 9, 4272	17.4	36
155	Linking Nanoscale Dynamics of AMPA Receptor Organization to Plasticity of Excitatory Synapses and Learning. <i>Journal of Neuroscience</i> , <b>2018</b> , 38, 9318-9329	6.6	58
154	Spatial and Temporal Regulation of Receptor Endocytosis in Neuronal Dendrites Revealed by Imaging of Single Vesicle Formation. <i>Cell Reports</i> , <b>2017</b> , 18, 1840-1847	10.6	31
153	Localization-based super-resolution imaging meets high-content screening. <i>Nature Methods</i> , <b>2017</b> , 14, 1184-1190	21.6	61
152	Hippocampal LTP and contextual learning require surface diffusion of AMPA receptors. <i>Nature</i> , <b>2017</b> , 549, 384-388	50.4	164
151	Semisynthetic fluorescent pH sensors for imaging exocytosis and endocytosis. <i>Nature Communications</i> , <b>2017</b> , 8, 1412	17.4	53
150	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> , <b>2016</b> , 214, 847-58	7.3	17
149	Mapping the dynamics and nanoscale organization of synaptic adhesion proteins using monomeric streptavidin. <i>Nature Communications</i> , <b>2016</b> , 7, 10773	17.4	102
148	Self-propelling vesicles define glycolysis as the minimal energy machinery for neuronal transport. <i>Nature Communications</i> , <b>2016</b> , 7, 13233	17.4	53
147	Single-particle tracking uncovers dynamics of glutamate-induced retrograde transport of NF-κB p65 in living neurons. <i>Neurophotonics</i> , <b>2016</b> , 3, 041804	3.9	8

146	Synaptic adhesion molecule IgSF11 regulates synaptic transmission and plasticity. <i>Nature Neuroscience</i> , <b>2016</b> , 19, 84-93	25.5	30
145	Botulinum neurotoxin type-A enters a non-recycling pool of synaptic vesicles. <i>Scientific Reports</i> , <b>2016</b> , 6, 19654	4.9	29
144	Shisa6 traps AMPA receptors at postsynaptic sites and prevents their desensitization during synaptic activity. <i>Nature Communications</i> , <b>2016</b> , 7, 10682	17.4	58
143	P2X-mediated AMPA receptor internalization and synaptic depression is controlled by two CaMKII phosphorylation sites on GluA1 in hippocampal neurons. <i>Scientific Reports</i> , <b>2016</b> , 6, 31836	4.9	17
142	Review on the role of AMPA receptor nano-organization and dynamic in the properties of synaptic transmission. <i>Neurophotonics</i> , <b>2016</b> , 3, 041811	3.9	24
141	Mobility of calcium channels in the presynaptic membrane. <i>Neuron</i> , <b>2015</b> , 86, 672-9	13.9	71
140	Control of autophagosome axonal retrograde flux by presynaptic activity unveiled using botulinum neurotoxin type a. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 6179-94	6.6	91
139	Lengthening of the Stargazin Cytoplasmic Tail Increases Synaptic Transmission by Promoting Interaction to Deeper Domains of PSD-95. <i>Neuron</i> , <b>2015</b> , 86, 475-89	13.9	54
138	SR-Tesseler: a method to segment and quantify localization-based super-resolution microscopy data. <i>Nature Methods</i> , <b>2015</b> , 12, 1065-71	21.6	220
137	Super-resolved and dynamic imaging of membrane proteins in plant cells reveal contrasting kinetic profiles and multiple confinement mechanisms. <i>Molecular Plant</i> , <b>2015</b> , 8, 339-42	14.4	39
136	Glutamate-induced AMPA receptor desensitization increases their mobility and modulates short-term plasticity through unbinding from Stargazin. <i>Neuron</i> , <b>2015</b> , 85, 787-803	13.9	100
135	Neddylation inhibition impairs spine development, destabilizes synapses and deteriorates cognition. <i>Nature Neuroscience</i> , <b>2015</b> , 18, 239-51	25.5	58
134	Nanoscale segregation of actin nucleation and elongation factors determines dendritic spine protrusion. <i>EMBO Journal</i> , <b>2014</b> , 33, 2745-64	13	89
133	ATP P2X receptors downregulate AMPA receptor trafficking and postsynaptic efficacy in hippocampal neurons. <i>Neuron</i> , <b>2014</b> , 83, 417-430	13.9	70
132	miR-92a regulates expression of synaptic GluA1-containing AMPA receptors during homeostatic scaling. <i>Nature Neuroscience</i> , <b>2014</b> , 17, 1040-2	25.5	41
131	SnapShot: receptor dynamics at plastic synapses. <i>Cell</i> , <b>2014</b> , 157, 1738-1738.e1	56.2	22
130	Tracking receptors using individual fluorescent and nonfluorescent nanolabels. <i>Cold Spring Harbor Protocols</i> , <b>2014</b> , 2014, 207-13	1.2	4
129	Recycling endosomes undergo rapid closure of a fusion pore on exocytosis in neuronal dendrites. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 11106-18	6.6	29

128	A Septin-Dependent Diffusion Barrier at Dendritic Spine Necks. <i>PLoS ONE</i> , <b>2014</b> , 9, e113916	3.7	63
127	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> , <b>2014</b> , 289, 9263-74	5.4	19
126	The 2014 Nobel Prize in Chemistry: a large-scale prize for achievements on the nanoscale. <i>Neuron</i> , <b>2014</b> , 84, 1116-9	13.9	10
125	Synaptically released matrix metalloproteinase activity in control of structural plasticity and the cell surface distribution of GluA1-AMPA receptors. <i>PLoS ONE</i> , <b>2014</b> , 9, e98274	3.7	56
124	Investigating AMPA Receptor Diffusion and Nanoscale Organization at Synapses with High-Density Single-Molecule Tracking Methods. <i>NeuroMethods</i> , <b>2014</b> , 59-74	0.4	2
123	Super-resolution imaging reveals that AMPA receptors inside synapses are dynamically organized in nanodomains regulated by PSD95. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 13204-24	6.6	367
122	Caged mono- and divalent ligands for light-assisted disruption of PDZ domain-mediated interactions. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 4580-3	16.4	21
121	Regulation of AMPA receptor surface trafficking and synaptic plasticity by a cognitive enhancer and antidepressant molecule. <i>Molecular Psychiatry</i> , <b>2013</b> , 18, 471-84	15.1	54
120	CYFIP1 coordinates mRNA translation and cytoskeleton remodeling to ensure proper dendritic spine formation. <i>Neuron</i> , <b>2013</b> , 79, 1169-82	13.9	181
119	The dynamic synapse. <i>Neuron</i> , <b>2013</b> , 80, 691-703	13.9	324
118	Inhibition of PDZ domain-mediated interactions. <i>Drug Discovery Today: Technologies</i> , <b>2013</b> , 10, e531-40	7.1	20
117	High-content super-resolution imaging of live cell by uPAINT. <i>Methods in Molecular Biology</i> , <b>2013</b> , 950, 95-110	1.4	29
116	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> , <b>2013</b> , 3, 1996-2007	10.6	58
115	Receptor concentration and diffusivity control multivalent binding of Sv40 to membrane bilayers. <i>PLoS Computational Biology</i> , <b>2013</b> , 9, e1003310	5	36
114	CaMKII-dependent phosphorylation of GluK5 mediates plasticity of kainate receptors. <i>EMBO Journal</i> , <b>2013</b> , 32, 496-510	13	41
113	Dopamine-dependent long-term depression at subthalamo-nigral synapses is lost in experimental parkinsonism. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 14331-41	6.6	20
112	Real-time analysis and visualization for single-molecule based super-resolution microscopy. <i>PLoS ONE</i> , <b>2013</b> , 8, e62918	3.7	86
111	Regulation of AMPA receptor surface diffusion by PSD-95 slots. <i>Current Opinion in Neurobiology</i> , <b>2012</b> , 22, 453-60	7.6	145

110	Integrins $\alpha$ and $\beta$ exhibit distinct dynamic nanoscale organizations inside focal adhesions. <i>Nature Cell Biology</i> , <b>2012</b> , 14, 1057-67	23.4	275
109	TNF- $\alpha$ influences the lateral dynamics of TNF receptor I in living cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2012</b> , 1823, 1984-9	4.9	21
108	Lateral Dynamics of TNF Receptor I in Living Cells Studied with Single-Particle Tracking and Photoactivatable Fluorescent Probes. <i>Biophysical Journal</i> , <b>2012</b> , 102, 31a	2.9	1
107	Unified quantitative model of AMPA receptor trafficking at synapses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 3522-7	11.5	74
106	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> , <b>2012</b> , 109, 17052-7	11.5	109
105	Wavelet analysis for single molecule localization microscopy. <i>Optics Express</i> , <b>2012</b> , 20, 2081-95	3.3	121
104	PSD-95 expression controls L-DOPA dyskinesia through dopamine D1 receptor trafficking. <i>Journal of Clinical Investigation</i> , <b>2012</b> , 122, 3977-89	15.9	100
103	A three-step model for the synaptic recruitment of AMPA receptors. <i>Molecular and Cellular Neurosciences</i> , <b>2011</b> , 46, 1-8	4.8	129
102	Biomimetic divalent ligands for the acute disruption of synaptic AMPAR stabilization. <i>Nature Chemical Biology</i> , <b>2011</b> , 7, 81-91	11.7	92
101	Quantum-yield-optimized fluorophores for site-specific labeling and super-resolution imaging. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 8090-3	16.4	33
100	Neurexin-neuroligin adhesions capture surface-diffusing AMPA receptors through PSD-95 scaffolds. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 13500-15	6.6	102
99	Learning, AMPA receptor mobility and synaptic plasticity depend on n-cofilin-mediated actin dynamics. <i>EMBO Journal</i> , <b>2010</b> , 29, 1889-902	13	164
98	Converting juvenile into adult plasticity: a role for the brain's extracellular matrix. <i>European Journal of Neuroscience</i> , <b>2010</b> , 31, 2156-65	3.5	89
97	Fast AMPAR trafficking for a high-frequency synaptic transmission. <i>European Journal of Neuroscience</i> , <b>2010</b> , 32, 250-60	3.5	83
96	Ankyrin G restricts ion channel diffusion at the axonal initial segment before the establishment of the diffusion barrier. <i>Journal of Cell Biology</i> , <b>2010</b> , 191, 383-95	7.3	66
95	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> , <b>2010</b> , 107, 19561-6	11.5	73
94	Dynamic superresolution imaging of endogenous proteins on living cells at ultra-high density. <i>Biophysical Journal</i> , <b>2010</b> , 99, 1303-10	2.9	301
93	CaMKII triggers the diffusional trapping of surface AMPARs through phosphorylation of stargazin. <i>Neuron</i> , <b>2010</b> , 67, 239-52	13.9	286

92	Control of the postsynaptic membrane viscosity. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 2926-37	6.6	122
91	Matrix metalloproteinase-9 controls NMDA receptor surface diffusion through integrin beta1 signaling. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 6007-12	6.6	154
90	Brain extracellular matrix affects AMPA receptor lateral mobility and short-term synaptic plasticity. <i>Nature Neuroscience</i> , <b>2009</b> , 12, 897-904	25.5	393
89	Endocytic trafficking and recycling maintain a pool of mobile surface AMPA receptors required for synaptic potentiation. <i>Neuron</i> , <b>2009</b> , 63, 92-105	13.9	222
88	The excitatory postsynaptic density is a size exclusion diffusion environment. <i>Neuropharmacology</i> , <b>2009</b> , 56, 30-6	5.5	33
87	Surface trafficking of N-methyl-D-aspartate receptors: physiological and pathological perspectives. <i>Neuroscience</i> , <b>2009</b> , 158, 4-18	3.9	102
86	Neurexin/neuroligin interaction kinetics characterized by counting single cell-surface attached quantum dots. <i>Biophysical Journal</i> , <b>2009</b> , 97, 480-9	2.9	20
85	Neuroscience. More AMPAR garnish. <i>Science</i> , <b>2009</b> , 323, 1295-6	33.3	17
84	Brain extracellular matrix affects AMPA receptor lateral mobility and short-term synaptic plasticity. <i>E-Neuroforum</i> , <b>2009</b> , 15, 94-95		1
83	The stress hormone corticosterone conditions AMPAR surface trafficking and synaptic potentiation. <i>Nature Neuroscience</i> , <b>2008</b> , 11, 868-70	25.5	212
82	Probing the dynamics of protein-protein interactions at neuronal contacts by optical imaging. <i>Chemical Reviews</i> , <b>2008</b> , 108, 1565-87	68.1	54
81	Surface mobility of postsynaptic AMPARs tunes synaptic transmission. <i>Science</i> , <b>2008</b> , 320, 201-5	33.3	372
80	Robust single-molecule approach for counting autofluorescent proteins. <i>Journal of Biomedical Optics</i> , <b>2008</b> , 13, 031216	3.5	8
79	New concepts in synaptic biology derived from single-molecule imaging. <i>Neuron</i> , <b>2008</b> , 59, 359-74	13.9	208
78	Tracking receptors by imaging single molecules. <i>Cold Spring Harbor Protocols</i> , <b>2008</b> , 2008, pdb.top25	1.2	2
77	A molecular clutch between the actin flow and N-cadherin adhesions drives growth cone migration. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 5879-90	6.6	126
76	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> , <b>2008</b> , 105, 18596-601	11.5	61
75	Measurement and characteristics of neurotransmitter receptor surface trafficking (Review). <i>Molecular Membrane Biology</i> , <b>2008</b> , 25, 344-52	3.4	27

74	Activity-independent and subunit-specific recruitment of functional AMPA receptors at neurexin/neurologin contacts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 20947-52	11.5	102
73	Optical Tweezers and Fluorescence Recovery After Photo-Bleaching to Measure Molecular Interactions at the Cell Surface. <i>Cellular and Molecular Bioengineering</i> , <b>2008</b> , 1, 301-311	3.9	4
72	Surface Trafficking of Membrane Proteins at Excitatory and Inhibitory Synapses <b>2008</b> , 369-406		
71	Nucleation and growth of cadherin adhesions. <i>Experimental Cell Research</i> , <b>2007</b> , 313, 4025-40	4.2	54
70	Surface trafficking of neurotransmitter receptor: comparison between single-molecule/quantum dot strategies. <i>Journal of Neuroscience</i> , <b>2007</b> , 27, 12433-7	6.6	171
69	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> , <b>2007</b> , 18, 3131-43	3.5	45
68	NMDA receptor surface trafficking and synaptic subunit composition are developmentally regulated by the extracellular matrix protein Reelin. <i>Journal of Neuroscience</i> , <b>2007</b> , 27, 10165-75	6.6	162
67	The interaction between Stargazin and PSD-95 regulates AMPA receptor surface trafficking. <i>Neuron</i> , <b>2007</b> , 53, 719-34	13.9	436
66	Diffusional trapping of GluR1 AMPA receptors by input-specific synaptic activity. <i>Neuron</i> , <b>2007</b> , 54, 447-60	13.9	251
65	Extracellular interactions between GluR2 and N-cadherin in spine regulation. <i>Neuron</i> , <b>2007</b> , 54, 461-77	13.9	283
64	Characterization of SynCAM surface trafficking using a SynCAM derived ligand with high homophilic binding affinity. <i>Biochemical and Biophysical Research Communications</i> , <b>2007</b> , 359, 655-9	3.4	12
63	Lateral Diffusion of Excitatory Neurotransmitter Receptors During Synaptogenesis <b>2006</b> , 221-232		
62	Regulation of N-cadherin dynamics at neuronal contacts by ligand binding and cytoskeletal coupling. <i>Molecular Biology of the Cell</i> , <b>2006</b> , 17, 862-75	3.5	64
61	NMDA receptor surface mobility depends on NR2A-2B subunits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 18769-74	11.5	263
60	Multiple routes for glutamate receptor trafficking: surface diffusion and membrane traffic cooperate to bring receptors to synapses. <i>Science Signaling</i> , <b>2006</b> , 2006, pe13	8.8	30
59	Single nanoparticle photothermal tracking (SNaPT) of 5-nm gold beads in live cells. <i>Biophysical Journal</i> , <b>2006</b> , 91, 4598-604	2.9	202
58	Simultaneous excitation of multiple fluororophores with a compact femtosecond laser <b>2006</b> , 6089, 135		2
57	AMPA and NMDA glutamate receptor trafficking: multiple roads for reaching and leaving the synapse. <i>Cell and Tissue Research</i> , <b>2006</b> , 326, 423-38	4.2	130



56	Surface trafficking of receptors between synaptic and extrasynaptic membranes: and yet they do move!. <i>Trends in Neurosciences</i> , <b>2005</b> , 28, 133-9	13.3	237
55	Weak effect of membrane diffusion on the rate of receptor accumulation at adhesive contacts. <i>Biophysical Journal</i> , <b>2005</b> , 89, L40-2	2.9	27
54	NrCAM coupling to the cytoskeleton depends on multiple protein domains and partitioning into lipid rafts. <i>Molecular Biology of the Cell</i> , <b>2004</b> , 15, 4695-709	3.5	54
53	Differential activity-dependent regulation of the lateral mobilities of AMPA and NMDA receptors. <i>Nature Neuroscience</i> , <b>2004</b> , 7, 695-6	25.5	329
52	Novel diode-pumped infrared tunable laser system for multi-photon microscopy. <i>Microscopy Research and Technique</i> , <b>2004</b> , 63, 23-6	2.8	23
51	Comparative analysis of infrared fluorescence generation in multiphoton spectroscopy <b>2004</b> , 5323, 314		
50	Direct imaging of lateral movements of AMPA receptors inside synapses. <i>EMBO Journal</i> , <b>2003</b> , 22, 4656-65		297
49	Synaptic structure and diffusion dynamics of synaptic receptors. <i>Biology of the Cell</i> , <b>2003</b> , 95, 465-76	3.5	43
48	On the stiffness of the natural actin filament decorated with alexa fluor tropomyosin. <i>Biophysical Chemistry</i> , <b>2003</b> , 104, 469-76	3.5	11
47	The role of receptor diffusion in the organization of the postsynaptic membrane. <i>Nature Reviews Neuroscience</i> , <b>2003</b> , 4, 251-65	13.5	323
46	Single metallic nanoparticle imaging for protein detection in cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 11350-5	11.5	303
45	Active surface transport of metabotropic glutamate receptors through binding to microtubules and actin flow. <i>Journal of Cell Science</i> , <b>2003</b> , 116, 5015-22	5.3	42
44	Fluorescence microscopy of single autofluorescent proteins for cellular biology. <i>Comptes Rendus Physique</i> , <b>2002</b> , 3, 645-656	1.4	12
43	Regulation of AMPA receptor lateral movements. <i>Nature</i> , <b>2002</b> , 417, 649-53	50.4	430
42	Dynamics of ligand-induced, Rac1-dependent anchoring of cadherins to the actin cytoskeleton. <i>Journal of Cell Biology</i> , <b>2002</b> , 157, 469-79	7.3	111
41	Effects of chemical modification, tropomyosin, and myosin subfragment 1 on the yield strength and critical concentration of F-actin. <i>Biochemistry</i> , <b>2002</b> , 41, 5907-12	3.2	9
40	Receptor activation and homer differentially control the lateral mobility of metabotropic glutamate receptor 5 in the neuronal membrane. <i>Journal of Neuroscience</i> , <b>2002</b> , 22, 3910-20	6.6	141
39	Recruitment of the kainate receptor subunit glutamate receptor 6 by cadherin/catenin complexes. <i>Journal of Neuroscience</i> , <b>2002</b> , 22, 6426-36	6.6	87

38	Trimers of the fibronectin cell adhesion domain localize to actin filament bundles and undergo rearward translocation. <i>Journal of Cell Science</i> , <b>2002</b> , 115, 2581-2590	5.3	70
37	Trimers of the fibronectin cell adhesion domain localize to actin filament bundles and undergo rearward translocation. <i>Journal of Cell Science</i> , <b>2002</b> , 115, 2581-90	5.3	64
36	On the elastic properties of tetramethylrhodamine F-actin. <i>Biophysical Chemistry</i> , <b>2001</b> , 92, 201-7	3.5	6
35	Fast and reversible trapping of surface glycine receptors by gephyrin. <i>Nature Neuroscience</i> , <b>2001</b> , 4, 253-60.5	6.5	219
34	Modulation of the metabotropic glutamate receptor mGluR5a anchorage to the cytoskeleton characterised by videomicroscopy and tracking of single particles manipulated with optical tweezers. <i>Biology of the Cell</i> , <b>1999</b> , 91, 237-238	3.5	
33	Rhodamine phalloidin F-actin: critical concentration versus tensile strength. <i>FEBS Journal</i> , <b>1999</b> , 263, 270-5		9
32	Cell migration as a five-step cycle. <i>Biochemical Society Symposia</i> , <b>1999</b> , 65, 233-43		87
31	Extracellular matrix rigidity causes strengthening of integrin-cytoskeleton linkages. <i>Cell</i> , <b>1997</b> , 88, 39-48.56.2	56.2	1068
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21	Pattern of potassium channel expression in proliferating B lymphocytes depends upon the mode of activation. <i>Journal of Immunology</i> , <b>1993</b> , 151, 2462-70	5.3	31

20	The (YXXL/I) <sub>2</sub> 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> , <b>1993</b> , 12, 5105-12	13	46
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5	Pharmacological modulation of AMPA receptor surface diffusion restores hippocampal synaptic plasticity and memory in Huntington's disease		2
4	Specific nanoscale synaptic reshuffling and control of short-term plasticity following NMDAR- and P2XR-dependent Long-Term Depression		1
3	MDGAs are fast-diffusing molecules that delay excitatory synapse development by altering neuroligin behavior		1

2	Engineering paralog-specific PSD-95 synthetic binders as potent and minimally invasive imaging probes	3
1	Bioorthogonal labeling of transmembrane proteins with non-canonical amino acids allows access to masked epitopes in live neurons	2