

Christian G Specht

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,657
citations

430874

18
h-index

454955

30
g-index

40
all docs

40
docs citations

40
times ranked

2501
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative Nanoscopy of Inhibitory Synapses: Counting Gephyrin Molecules and Receptor Binding Sites. <i>Neuron</i> , 2013, 79, 308-321.	8.1	190
2	Wavelet analysis for single molecule localization microscopy. <i>Optics Express</i> , 2012, 20, 2081.	3.4	173
3	Ordered growth of neurons on diamond. <i>Biomaterials</i> , 2004, 25, 4073-4078.	11.4	139
4	Super-Resolution Dynamic Imaging of Dendritic Spines Using a Low-Affinity Photoconvertible Actin Probe. <i>PLoS ONE</i> , 2011, 6, e15611.	2.5	137
5	The SNARE Sec22b has a non-fusogenic function in plasma membrane expansion. <i>Nature Cell Biology</i> , 2014, 16, 434-444.	10.3	123
6	Synaptic SAP97 Isoforms Regulate AMPA Receptor Dynamics and Access to Presynaptic Glutamate. <i>Journal of Neuroscience</i> , 2009, 29, 4332-4345.	3.6	94
7	Mapping the Energy and Diffusion Landscapes of Membrane Proteins at the Cell Surface Using High-Density Single-Molecule Imaging and Bayesian Inference: Application to the Multiscale Dynamics of Glycine Receptors in the Neuronal Membrane. <i>Biophysical Journal</i> , 2014, 106, 74-83.	0.5	90
8	Regulation of glycine receptor diffusion properties and gephyrin interactions by protein kinase C. <i>EMBO Journal</i> , 2011, 30, 3842-3853.	7.8	81
9	Gephyrin Oligomerization Controls GlyR Mobility and Synaptic Clustering. <i>Journal of Neuroscience</i> , 2009, 29, 7639-7648.	3.6	78
10	Subcellular localisation of recombinant $\hat{1}\pm$ - and $\hat{1}^3$ -synuclein. <i>Molecular and Cellular Neurosciences</i> , 2005, 28, 326-334.	2.2	74
11	Deletion of multimerin-1 in $\hat{1}\pm$ -synuclein-deficient mice. <i>Genomics</i> , 2004, 83, 1176-1178.	2.9	57
12	Alpha subunit-dependent glycine receptor clustering and regulation of synaptic receptor numbers. <i>Scientific Reports</i> , 2017, 7, 10899.	3.3	54
13	Chemical characterisation of glass mosaic tesserae from sixth-century Sagalassos (south-west) Tj ETQq1 1 0.784314 rgBT /Overlock 1 1480-1492.	2.4	52
14	Spatial learning is unimpaired in mice containing a deletion of the alpha-synuclein locus. <i>European Journal of Neuroscience</i> , 2002, 16, 154-158.	2.6	40
15	The dynamics of synaptic scaffolds. <i>BioEssays</i> , 2008, 30, 1062-1074.	2.5	39
16	Benzodiazepine-dependent stabilization of GABAA receptors at synapses. <i>Molecular and Cellular Neurosciences</i> , 2014, 63, 101-113.	2.2	35
17	The Role of Synaptopodin in Membrane Protein Diffusion in the Dendritic Spine Neck. <i>PLoS ONE</i> , 2016, 11, e0148310.	2.5	24
18	Differential regulation of glycinergic and GABAergic nanocolumns at mixed inhibitory synapses. <i>EMBO Reports</i> , 2021, 22, e52154.	4.5	22

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19	Fractional occupancy of synaptic binding sites and the molecular plasticity of inhibitory synapses. <i>Neuropharmacology</i> , 2020, 169, 107493.	4.1	20
20	Synaptic receptor dynamics: From theoretical concepts to deep quantification and chemistry in cellulo. <i>Neuropharmacology</i> , 2015, 88, 2-9.	4.1	19
21	Sequences Flanking the Gephyrin-Binding Site of GlyR ¹² Tune Receptor Stabilization at Synapses. <i>ENeuro</i> , 2018, 5, ENEURO.0042-17.2018.	1.9	18
22	cAMP-EPAC-Dependent Regulation of Gephyrin Phosphorylation and GABAAR Trapping at Inhibitory Synapses. <i>IScience</i> , 2019, 22, 453-465.	4.1	17
23	Subsynaptic Domains in Super-Resolution Microscopy: The Treachery of Images. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 161.	2.9	17
24	Identification of a stereotypic molecular arrangement of endogenous glycine receptors at spinal cord synapses. <i>ELife</i> , 2021, 10, .	6.0	17
25	Counting numbers of synaptic proteins: absolute quantification and single molecule imaging techniques. <i>Neurophotonics</i> , 2016, 3, 041805.	3.3	16
26	Reciprocal stabilization of glycine receptors and gephyrin scaffold proteins at inhibitory synapses. <i>Biophysical Journal</i> , 2021, 120, 805-817.	0.5	8
27	Practical Guidelines for Two-Color SMLM of Synaptic Proteins in Cultured Neurons. <i>Neuromethods</i> , 2020, , 173-202.	0.3	5
28	A Quantitative Perspective of Alpha-Synuclein Dynamics – Why Numbers Matter. <i>Frontiers in Synaptic Neuroscience</i> , 2021, 13, 753462.	2.5	4
29	Visualizing the Ultrastructures and Dynamics of Synapses by Single-Molecule Nanoscopy. <i>Neuromethods</i> , 2014, , 75-91.	0.3	3
30	A Versatile Synthetic Affinity Probe Reveals Inhibitory Synapse Ultrastructure and Brain Connectivity. <i>Angewandte Chemie - International Edition</i> , 2022, , .	13.8	3
31	Analysis and Quantification of Protein and Phosphorylation Expression at the Synapse. <i>FASEB Journal</i> , 2006, 20, A528.	0.5	0
32	A Versatile Synthetic Affinity Probe Reveals Inhibitory Synapse Ultrastructure and Brain Connectivity. <i>Angewandte Chemie</i> , 0, , .	2.0	0
33	Titelbild: Eine vielseitige synthetische AffinitÄtssonde zur hochaufgelÄstesten Visualisierung hemmender Synapsen und neuronaler Netzwerke (Angew. Chem. 30/2022). <i>Angewandte Chemie</i> , 2022, 134, .	2.0	0
34	Cover Picture: A Versatile Synthetic Affinity Probe Reveals Inhibitory Synapse Ultrastructure and Brain Connectivity (Angew. Chem. Int. Ed. 30/2022). <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	0