

Matthieu Sainlos

List of Publications by Year in descending order

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41
papers

2,534
citations

257429

24
h-index

302107

39
g-index

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all docs

50
docs citations

50
times ranked

3486
citing authors

#	ARTICLE	IF	CITATIONS
1	The Design of Cationic Lipids for Gene Delivery. <i>Current Pharmaceutical Design</i> , 2005, 11, 375-394.	1.9	286
2	Monitoring protein interactions and dynamics with solvatochromic fluorophores. <i>Trends in Biotechnology</i> , 2010, 28, 73-83.	9.3	260
3	Regulation of AMPA receptor surface diffusion by PSD-95 slots. <i>Current Opinion in Neurobiology</i> , 2012, 22, 453-460.	4.2	187
4	Self-assembled lamellar complexes of siRNA with lipidic aminoglycoside derivatives promote efficient siRNA delivery and interference. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 16534-16539.	7.1	144
5	Mapping the dynamics and nanoscale organization of synaptic adhesion proteins using monomeric streptavidin. <i>Nature Communications</i> , 2016, 7, 10773.	12.8	137
6	Pre-post synaptic alignment through neuroligin-1 tunes synaptic transmission efficiency. <i>ELife</i> , 2018, 7, .	6.0	134
7	Biomimetic divalent ligands for the acute disruption of synaptic AMPAR stabilization. <i>Nature Chemical Biology</i> , 2011, 7, 81-91.	8.0	103
8	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, 19561-19566.	7.1	86
9	Fluorogenic probes for monitoring peptide binding to class II MHC proteins in living cells. <i>Nature Chemical Biology</i> , 2007, 3, 222-228.	8.0	85
10	Differential Nanoscale Topography and Functional Role of GluN2-NMDA Receptor Subtypes at Glutamatergic Synapses. <i>Neuron</i> , 2018, 100, 106-119.e7.	8.1	83
11	Lengthening of the Stargazin Cytoplasmic Tail Increases Synaptic Transmission by Promoting Interaction to Deeper Domains of PSD-95. <i>Neuron</i> , 2015, 86, 475-489.	8.1	78
12	Advanced imaging and labelling methods to decipher brain cell organization and function. <i>Nature Reviews Neuroscience</i> , 2021, 22, 237-255.	10.2	76
13	Neurexin-1 β 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
14	Neomycin-capped aromatic platforms: quadruplex DNA recognition and telomerase inhibition. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 1049.	2.8	64
15	Modulation of AMPA receptor surface diffusion restores hippocampal plasticity and memory in Huntington's disease models. <i>Nature Communications</i> , 2018, 9, 4272.	12.8	62
16	CaMKII Metaplasticity Drives A β Oligomer-Mediated Synaptotoxicity. <i>Cell Reports</i> , 2018, 23, 3137-3145.	6.4	61
17	Progress in Gene Delivery by Cationic Lipids : Guanidinium-Cholesterol-Based Systems as an Example. <i>Current Drug Targets</i> , 2002, 3, 1-16.	2.1	59
18	A General Screening Strategy for Peptide-Based Fluorogenic Ligands: Probes for Dynamic Studies of PDZ Domain-Mediated Interactions. <i>Journal of the American Chemical Society</i> , 2009, 131, 6680-6682.	13.7	57

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19	Kanamycin A-Derived Cationic Lipids as Vectors for Gene Transfection. <i>ChemBioChem</i> , 2005, 6, 1023-1033.	2.6	55
20	Paromomycin and neomycin B derived cationic lipids: Synthesis and transfection studies. <i>Journal of Controlled Release</i> , 2012, 158, 461-469.	9.9	47
21	Aminoglycoside-Derived Cationic Lipids for Gene Transfection: Synthesis of Kanamycin Derivatives. <i>European Journal of Organic Chemistry</i> , 2003, 2003, 2764-2774.	2.4	45
22	A unique intracellular tyrosine in neuroligin-1 regulates AMPA receptor recruitment during synapse differentiation and potentiation. <i>Nature Communications</i> , 2018, 9, 3979.	12.8	40
23	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
24	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
25	Nanoscale organization of synaptic adhesion proteins revealed by single-molecule localization microscopy. <i>Neurophotonics</i> , 2016, 3, 041810.	3.3	29
26	Functional recruitment of dynamin requires multimeric interactions for efficient endocytosis. <i>Nature Communications</i> , 2019, 10, 4462.	12.8	27
27	Caged Mono- and Divalent Ligands for Light-Assisted Disruption of PDZ Domain-Mediated Interactions. <i>Journal of the American Chemical Society</i> , 2013, 135, 4580-4583.	13.7	24
28	Inhibition of PDZ domain-mediated interactions. <i>Drug Discovery Today: Technologies</i> , 2013, 10, e531-e540.	4.0	22
29	Engineering selective competitors for the discrimination of highly conserved protein-protein interaction modules. <i>Nature Communications</i> , 2019, 10, 4521.	12.8	22
30	Aminoglycoside-Quinacridine Conjugates: Towards Recognition of the P6.1 Element of Telomerase RNA. <i>ChemBioChem</i> , 2006, 7, 321-329.	2.6	21
31	Synthesis of anhydride precursors of the environment-sensitive fluorophores 4-DMAP and 6-DMN. <i>Nature Protocols</i> , 2007, 2, 3219-3225.	12.0	20
32	Tools for investigating peptide-protein interactions: peptide incorporation of environment-sensitive fluorophores via on-resin derivatization. <i>Nature Protocols</i> , 2007, 2, 3201-3209.	12.0	19
33	TSPAN5 Enriched Microdomains Provide a Platform for Dendritic Spine Maturation through Neuroligin-1 Clustering. <i>Cell Reports</i> , 2019, 29, 1130-1146.e8.	6.4	17
34	Tools for investigating peptide-protein interactions: peptide incorporation of environment-sensitive fluorophores through SPPS-based 'building block' approach. <i>Nature Protocols</i> , 2007, 2, 3210-3218.	12.0	14
35	Biophysical mechanisms underlying the membrane trafficking of synaptic adhesion molecules. <i>Neuropharmacology</i> , 2020, 169, 107555.	4.1	13
36	MDGAs are fast-diffusing molecules that delay excitatory synapse development by altering neuroligin behavior. <i>ELife</i> , 2022, 11, .	6.0	9

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37	High-Resolution Fluorescence Imaging Combined With Computer Simulations to Quantitate Surface Dynamics and Nanoscale Organization of Neuroligin-1 at Synapses. <i>Frontiers in Synaptic Neuroscience</i> , 2022, 14, 835427.	2.5	2
38	Role of regulatory C-terminal motifs in synaptic confinement of LRRTM2. <i>Biology of the Cell</i> , 2021, 113, 492-506.	2.0	1
39	Super Resolution Mapping of Adhesion Molecules in Confined Cellular Environments using Monomeric Streptavidin Ligands. <i>Biophysical Journal</i> , 2014, 106, 202a.	0.5	0
40	Customized fused aromatics for structural recognition of nucleic acids. , 2005, , .		0
41	Mechanical Regulation of the WAVE Complex by Actin Elongation in the Lamellipodium. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0