Matthieu Sainlos

List of Publications by Year
in descending order

41	2,534	24	39
papers	citations	h-index	g-index
		257450	302126

50	50	50	3486
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Design of Cationic Lipids for Gene Delivery. Current Pharmaceutical Design, 2005, 11, 375-394.	1.9	286
2	Monitoring protein interactions and dynamics with solvatochromic fluorophores. Trends in Biotechnology, 2010, 28, 73-83.	9.3	260
3	Regulation of AMPA receptor surface diffusion by PSD-95 slots. Current Opinion in Neurobiology, 2012, 22, 453-460.	4.2	187
4	Self-assembled lamellar complexes of siRNA with lipidic aminoglycoside derivatives promote efficient siRNA delivery and interference. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16534-16539.	7.1	144
5	Mapping the dynamics and nanoscale organization of synaptic adhesion proteins using monomeric streptavidin. Nature Communications, 2016, 7, 10773.	12.8	137
6	Pre-post synaptic alignment through neuroligin-1 tunes synaptic transmission efficiency. ELife, 2018, 7, .	6.0	134
7	Biomimetic divalent ligands for the acute disruption of synaptic AMPAR stabilization. Nature Chemical Biology, 2011, 7, 81-91.	8.0	103
8	Dynamic and specific interaction between synaptic NR2-NMDA receptor and PDZ proteins. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19561-19566.	7.1	86
9	Fluorogenic probes for monitoring peptide binding to class II MHC proteins in living cells. Nature Chemical Biology, 2007, 3, 222-228.	8.0	85
10	Differential Nanoscale Topography and Functional Role of GluN2-NMDA Receptor Subtypes at Glutamatergic Synapses. Neuron, 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. Neuron, 2015, 86, 475-489.	8.1	78
12	Advanced imaging and labelling methods to decipher brain cell organization and function. Nature Reviews Neuroscience, 2021, 22, 237-255.	10.2	76
13	Neurexin-1Î² Binding to Neuroligin-1 Triggers the Preferential Recruitment of PSD-95 versus Gephyrin through Tyrosine Phosphorylation of Neuroligin-1. Cell Reports, 2013, 3, 1996-2007.	6.4	73
14	Neomycin-capped aromatic platforms: quadruplex DNA recognition and telomerase inhibition. Organic and Biomolecular Chemistry, 2006, 4, 1049.	2.8	64
15	Modulation of AMPA receptor surface diffusion restores hippocampal plasticity and memory in Huntingtonâ€™s disease models. Nature Communications, 2018, 9, 4272.	12.8	62
16	CaMKII Metaplasticity Drives AÎ² Oligomer-Mediated Synaptotoxicity. Cell Reports, 2018, 23, 3137-3145.	6.4	61
17	Progress in Gene Delivery by Cationic Lipids : Guanidinium-Cholesterol-Based Systems as an Example. Current Drug Targets, 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. Journal of the American Chemical Society, 2009, 131, 6680-6682.	13.7	57

#	Article	IF	Citations
19	Kanamycin A-Derived Cationic Lipids as Vectors for Gene Transfection. ChemBioChem, 2005, 6, 1023-1033.	2.6	55
20	Paromomycin and neomycin B derived cationic lipids: Synthesis and transfection studies. Journal of Controlled Release, 2012, 158, 461-469.	9.9	47
21	Aminoglycoside-Derived Cationic Lipids for Gene Transfection: Synthesis of KanamycinÂA Derivatives. European Journal of Organic Chemistry, 2003, 2003, 2764-2774.	2.4	45
22	A unique intracellular tyrosine in neuroligin-1 regulates AMPA receptor recruitment during synapse differentiation and potentiation. Nature Communications, 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. Nature Protocols, 2017, 12, 748-763.	12.0	32
24	Forces generated by lamellipodial actin filament elongation regulate the WAVE complex during cell migration. Nature Cell Biology, 2021, 23, 1148-1162.	10.3	30
25	Nanoscale organization of synaptic adhesion proteins revealed by single-molecule localization microscopy. Neurophotonics, 2016, 3, 041810.	3.3	29
26	Functional recruitment of dynamin requires multimeric interactions for efficient endocytosis. Nature Communications, 2019, 10, 4462.	12.8	27
27	Caged Mono- and Divalent Ligands for Light-Assisted Disruption of PDZ Domain-Mediated Interactions. Journal of the American Chemical Society, 2013, 135, 4580-4583.	13.7	24
28	Inhibition of PDZ domain-mediated interactions. Drug Discovery Today: Technologies, 2013, 10, e531-e540.	4.0	22
29	Engineering selective competitors for the discrimination of highly conserved protein-protein interaction modules. Nature Communications, 2019, 10, 4521.	12.8	22
30	Aminoglycoside-Quinacridine Conjugates: Towards Recognition of the P6.1 Element of Telomerase RNA. ChemBioChem, 2006, 7, 321-329.	2.6	21
31	Synthesis of anhydride precursors of the environment-sensitive fluorophores 4-DMAP and 6-DMN. Nature Protocols, 2007, 2, 3219-3225.	12.0	20
32	Tools for investigating peptideâ€"protein interactions: peptide incorporation of environment-sensitive fluorophores via on-resin derivatization. Nature Protocols, 2007, 2, 3201-3209.	12.0	19
33	TSPAN5 Enriched Microdomains Provide a Platform for Dendritic Spine Maturation through Neuroligin-1 Clustering. Cell Reports, 2019, 29, 1130-1146.e8.	6.4	17
34	Tools for investigating peptideâ€"protein interactions: peptide incorporation of environment-sensitive fluorophores through SPPS-based 'building block' approach. Nature Protocols, 2007, 2, 3210-3218.	12.0	14
35	Biophysical mechanisms underlying the membrane trafficking of synaptic adhesion molecules. Neuropharmacology, 2020, 169, 107555.	4.1	13
36	MDGAs are fast-diffusing molecules that delay excitatory synapse development by altering neuroligin behavior. ELife, 2022, 11, .	6.0	9

#	Article	IF	Citations
37	High-Resolution Fluorescence Imaging Combined With Computer Simulations to Quantitate Surface Dynamics and Nanoscale Organization of Neuroligin-1 at Synapses. Frontiers in Synaptic Neuroscience, 2022, 14, 835427.	2.5	2
38	Role of regulatory Câ€terminal motifs in synaptic confinement of LRRTM2. Biology of the Cell, 2021, 113, 492-506.	2.0	1
39	Super Resolution Mapping of Adhesion Molecules in Confined Cellular Environments using Monomeric Streptavidin Ligands. Biophysical Journal, 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. SSRN Electronic Journal, 0, , .	0.4	0