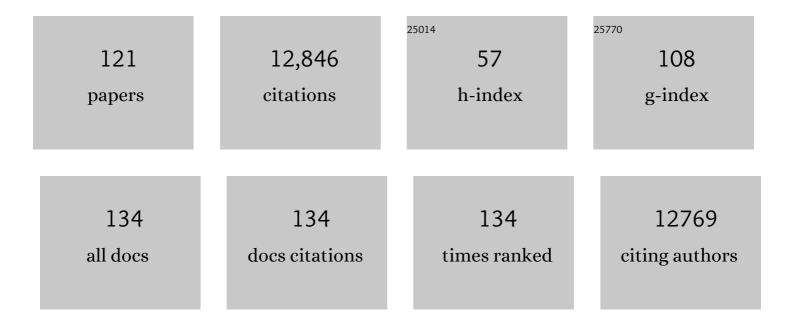
List of Publications by Year in descending order

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OLE DALLISEN

#	Article	IF	CITATIONS
1	Different encoding of reward location in dorsal and intermediate hippocampus. Current Biology, 2022, 32, 834-841.e5.	1.8	26
2	Differential vulnerability of hippocampal CA3-CA1 synapses to Aβ. Acta Neuropathologica Communications, 2022, 10, 45.	2.4	4
3	Modulation of hippocampal plasticity in learning and memory. Current Opinion in Neurobiology, 2022, 75, 102558.	2.0	16
4	Cholinergic modulation of Up–Down states in the mouse medial entorhinal cortex in vitro. European Journal of Neuroscience, 2021, 53, 1378-1393.	1.2	3
5	An emergent neural coactivity code for dynamic memory. Nature Neuroscience, 2021, 24, 694-704.	7.1	43
6	Impaired spatial learning and suppression of sharp wave ripples by cholinergic activation at the goal location. ELife, 2021, 10, .	2.8	19
7	The functional role of sequentially neuromodulated synaptic plasticity in behavioural learning. PLoS Computational Biology, 2021, 17, e1009017.	1.5	2
8	Thalamus mediates neocortical Down state transition via GABAB-receptor-targeting interneurons. Neuron, 2021, 109, 2682-2690.e5.	3.8	20
9	OptoGenie: an open-source device for the optogenetic stimulation of cells. Journal of Open Hardware, 2021, 5, .	0.2	0
10	Human ALS/FTD brain organoid slice cultures display distinct early astrocyte and targetable neuronal pathology. Nature Neuroscience, 2021, 24, 1542-1554.	7.1	72
11	Neuromodulation of Spike-Timing-Dependent Plasticity: Past, Present, and Future. Neuron, 2019, 103, 563-581.	3.8	145
12	Cerebral organoids at the air–liquid interface generate diverse nerve tracts with functional output. Nature Neuroscience, 2019, 22, 669-679.	7.1	398
13	Partial restoration of physiological UP-state activity by GABA pathway modulation in an acute brain slice model of epilepsy. Neuropharmacology, 2019, 148, 394-405.	2.0	5
14	Activity-Dependent Downscaling of Subthreshold Synaptic Inputs during Slow-Wave-Sleep-like Activity InÂVivo. Neuron, 2018, 97, 1244-1252.e5.	3.8	95
15	Towards resolving the presynaptic NMDA receptor debate. Current Opinion in Neurobiology, 2018, 51, 1-7.	2.0	68
16	Comparison of three gamma oscillations in the mouse entorhinal–hippocampal system. European Journal of Neuroscience, 2018, 48, 2795-2806.	1.2	27
17	Acetylcholine-modulated plasticity in reward-driven navigation: a computational study. Scientific Reports, 2018, 8, 9486.	1.6	34
18	Basal Forebrain and Brainstem Cholinergic Neurons Differentially Impact Amygdala Circuits and Learning-Related Behavior. Current Biology, 2018, 28, 2557-2569.e4.	1.8	44

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#	Article	IF	CITATIONS
19	Neuregulin 1 Type I Overexpression Is Associated with Reduced NMDA Receptor–Mediated Synaptic Signaling in Hippocampal Interneurons Expressing PV or CCK. ENeuro, 2018, 5, ENEURO.0418-17.2018.	0.9	27
20	Micro-connectomics: probing the organization of neuronal networks at the cellular scale. Nature Reviews Neuroscience, 2017, 18, 131-146.	4.9	103
21	Distinct mechanisms of Up state maintenance in the medial entorhinal cortex and neocortex. Neuropharmacology, 2017, 113, 543-555.	2.0	10
22	Cortical Up states induce the selective weakening of subthreshold synaptic inputs. Nature Communications, 2017, 8, 665.	5.8	34
23	Wild-Type, but Not Mutant N296H, Human Tau Restores AÎ ² -Mediated Inhibition of LTP in Tauâ^'/â^' mice. Frontiers in Neuroscience, 2017, 11, 201.	1.4	15
24	Sequential neuromodulation of Hebbian plasticity offers mechanism for effective reward-based navigation. ELife, 2017, 6, .	2.8	74
25	Optogenetic Methods to Study Lateralized Synaptic Function. Neuromethods, 2017, , 331-365.	0.2	0
26	Intrinsic Cornu Ammonis Area 1 Theta-Nested Gamma Oscillations Induced by Optogenetic Theta Frequency Stimulation. Journal of Neuroscience, 2016, 36, 4155-4169.	1.7	57
27	Dopamine Neuron-Specific Optogenetic Stimulation in Rhesus Macaques. Cell, 2016, 166, 1564-1571.e6.	13.5	219
28	Archaerhodopsin Selectively and Reversibly Silences Synaptic Transmission through Altered pH. Cell Reports, 2016, 16, 2259-2268.	2.9	72
29	Presynaptic Spike Timing-Dependent Long-Term Depression in the Mouse Hippocampus. Cerebral Cortex, 2016, 26, 3637-3654.	1.6	109
30	A comparison of computational methods for detecting bursts in neuronal spike trains and their application to human stem cell-derived neuronal networks. Journal of Neurophysiology, 2016, 116, 306-321.	0.9	77
31	Roles of Presynaptic NMDA Receptors in Neurotransmission and Plasticity. Trends in Neurosciences, 2016, 39, 26-39.	4.2	81
32	Stochastic and deterministic dynamics of intrinsically irregular firing in cortical inhibitory interneurons. ELife, 2016, 5, .	2.8	26
33	Emergence of Rich-Club Topology and Coordinated Dynamics in Development of Hippocampal Functional Networks <i>In Vitro</i> . Journal of Neuroscience, 2015, 35, 5459-5470.	1.7	138
34	Early maturation and distinct tau pathology in induced pluripotent stem cell-derived neurons from patients with <i>MAPT</i> mutations. Brain, 2015, 138, 3345-3359.	3.7	116
35	Ramping single unit activity in the medial prefrontal cortex and ventral striatum reflects the onset of waiting but not imminent impulsive actions. European Journal of Neuroscience, 2015, 41, 1524-1537.	1.2	40
36	Synaptic Plasticity and Memory. Neuroscientist, 2015, 21, 490-502.	2.6	49

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37	Hippocampal network oscillations — recent insights from in vitro experiments. Current Opinion in Neurobiology, 2015, 31, 40-44.	2.0	32
38	Neuronal Cx3cr1 Deficiency Protects against Amyloid β-Induced Neurotoxicity. PLoS ONE, 2015, 10, e0127730.	1.1	26
39	Retroactive modulation of spike timing-dependent plasticity by dopamine. ELife, 2015, 4, .	2.8	94
40	Oscillatory Activity in the Medial Prefrontal Cortex and Nucleus Accumbens Correlates with Impulsivity and Reward Outcome. PLoS ONE, 2014, 9, e111300.	1.1	68
41	Distinct mechanisms of spike timing-dependent LTD at vertical and horizontal inputs onto L2/3 pyramidal neurons in mouse barrel cortex. Physiological Reports, 2014, 2, e00271.	0.7	53
42	GluN2A and GluN2B subunit-containing NMDA receptors in hippocampal plasticity. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130163.	1.8	219
43	NMDA spikes enhance action potential generation during sensory input. Nature Neuroscience, 2014, 17, 383-390.	7.1	267
44	Left–right dissociation of hippocampal memory processes in mice. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15238-15243.	3.3	161
45	The Hippocampal Cacophony: Multiple Layers of Communication. Neuron, 2014, 84, 251-253.	3.8	3
46	Development of dendritic tonic GABAergic inhibition regulates excitability and plasticity in CA1 pyramidal neurons. Journal of Neurophysiology, 2014, 112, 287-299.	0.9	46
47	Dopamine suppresses persistent network activity via D ₁ â€like dopamine receptors in rat medial entorhinal cortex. European Journal of Neuroscience, 2013, 37, 1242-1247.	1.2	21
48	Distinct roles of GABA _{B1a} ―and GABA _{B1b} â€containing GABA _B receptors in spontaneous and evoked termination of persistent cortical activity. Journal of Physiology, 2013, 591, 835-843.	1.3	52
49	Presynaptic Self-Depression at Developing Neocortical Synapses. Neuron, 2013, 77, 35-42.	3.8	56
50	Stem Cells Expanded from the Human Embryonic Hindbrain Stably Retain Regional Specification and High Neurogenic Potency. Journal of Neuroscience, 2013, 33, 12407-12422.	1.7	74
51	Frequency dependence of CA3 spike phase response arising from h-current properties. Frontiers in Cellular Neuroscience, 2013, 7, 263.	1.8	12
52	Transgenic Overexpression of the Type I Isoform of Neuregulin 1 Affects Working Memory and Hippocampal Oscillations but not Long-term Potentiation. Cerebral Cortex, 2012, 22, 1520-1529.	1.6	68
53	Caged intracellular NMDA receptor blockers for the study of subcellular ion channel function. Communicative and Integrative Biology, 2012, 5, 240-242.	0.6	13
54	Aberration-free three-dimensional multiphoton imaging of neuronal activity at kHz rates. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2919-2924.	3.3	195

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55	Gating of NMDA receptor-mediated hippocampal spike timing-dependent potentiation by mGluR5. Neuropharmacology, 2012, 63, 701-709.	2.0	23
56	The Hodgkin-Huxley Heritage: From Channels to Circuits. Journal of Neuroscience, 2012, 32, 14064-14073.	1.7	86
57	Hemisphere-specific optogenetic stimulation reveals left-right asymmetry of hippocampal plasticity. Nature Neuroscience, 2011, 14, 1413-1415.	7.1	106
58	Phase of Firing as a Local Window for Efficient Neuronal Computation: Tonic and Phasic Mechanisms in the Control of Theta Spike Phase. Frontiers in Human Neuroscience, 2011, 5, 3.	1.0	10
59	Hippocampal mossy fiber longâ€ŧerm depression in Grm2/3 double knockout mice. Synapse, 2011, 65, 945-954.	0.6	33
60	Presynaptic Induction and Expression of Timing-Dependent Long-Term Depression Demonstrated by Compartment-Specific Photorelease of a Use-Dependent NMDA Receptor Antagonist. Journal of Neuroscience, 2011, 31, 8564-8569.	1.7	67
61	Tau Protein Is Required for Amyloid Î2-Induced Impairment of Hippocampal Long-Term Potentiation. Journal of Neuroscience, 2011, 31, 1688-1692.	1.7	275
62	Identification of the current generator underlying cholinergically induced gamma frequency field potential oscillations in the hippocampal CA3 region. Journal of Physiology, 2010, 588, 785-797.	1.3	68
63	Differences in subthreshold resonance of hippocampal pyramidal cells and interneurons: the role of hâ€current and passive membrane characteristics. Journal of Physiology, 2010, 588, 2109-2132.	1.3	187
64	Currents in space: understanding inhibitory field potentials. Journal of Physiology, 2010, 588, 2015-2016.	1.3	1
65	The many tunes of perisomatic targeting interneurons in the hippocampal network. Frontiers in Cellular Neuroscience, 2010, 4, .	1.8	16
66	Presynaptic NMDA receptors and spike timing-dependent long-term depression at cortical synapses. Frontiers in Synaptic Neuroscience, 2010, 2, 18.	1.3	48
67	Priming of Hippocampal Population Bursts by Individual Perisomatic-Targeting Interneurons. Journal of Neuroscience, 2010, 30, 5979-5991.	1.7	119
68	The Roles of GABAB Receptors in Cortical Network Activity. Advances in Pharmacology, 2010, 58, 205-229.	1.2	95
69	Local Field Potential Oscillations as a Cortical Soliloquy. Neuron, 2010, 67, 3-5.	3.8	13
70	α5 Subunit-containing GABAA receptors mediate a slowly decaying inhibitory synaptic current in CA1 pyramidal neurons following Schaffer collateral activation. Neuropharmacology, 2010, 58, 668-675.	2.0	44
71	Distinct Roles of GABAA and GABAB Receptors in Balancing and Terminating Persistent Cortical Activity. Journal of Neuroscience, 2009, 29, 7513-7518.	1.7	188
72	Double Dissociation of Spike Timing–Dependent Potentiation and Depression by Subunit-Preferring NMDA Receptor Antagonists in Mouse Barrel Cortex. Cerebral Cortex, 2009, 19, 2959-2969.	1.6	121

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73	Novel Markers Reveal Subpopulations of Subplate Neurons in the Murine Cerebral Cortex. Cerebral Cortex, 2009, 19, 1738-1750.	1.6	145
74	Neuronal oscillations and the rateâ€ŧoâ€phase transform: mechanism, model and mutual information. Journal of Physiology, 2009, 587, 769-785.	1.3	36
75	Flexible spike timing of layer 5 neurons during dynamic beta oscillation shifts in rat prefrontal cortex. Journal of Physiology, 2009, 587, 5177-5196.	1.3	39
76	The timing of external input controls the sign of plasticity at local synapses. Nature Neuroscience, 2009, 12, 1219-1221.	7.1	58
77	Maintaining network activity in submerged hippocampal slices: importance of oxygen supply. European Journal of Neuroscience, 2009, 29, 319-327.	1.2	210
78	Induction and expression of GluA1 (GluRâ€A)â€independent LTP in the hippocampus. European Journal of Neuroscience, 2009, 29, 1141-1152.	1.2	68
79	Network mechanisms of gamma oscillations in the CA3 region of the hippocampus. Neural Networks, 2009, 22, 1113-1119.	3.3	134
80	Amphiphilic Porphyrins for Second Harmonic Generation Imaging. Journal of the American Chemical Society, 2009, 131, 2758-2759.	6.6	134
81	Bidirectional control of spike timing by GABAA receptor-mediated inhibition during theta oscillation in CA1 pyramidal neurons. NeuroReport, 2009, 20, 1209-1213.	0.6	16
82	Thalamocortical maturation in mice is influenced by body weight. Journal of Comparative Neurology, 2008, 511, 415-420.	0.9	16
83	Spike timing–dependent long-term depression requires presynaptic NMDA receptors. Nature Neuroscience, 2008, 11, 744-745.	7.1	139
84	Role of GABAergic inhibition in hippocampal network oscillations. Trends in Neurosciences, 2007, 30, 343-349.	4.2	337
85	Cortical Songs Revisited: A Lesson in Statistics. Neuron, 2007, 53, 319-321.	3.8	9
86	Exploring Fast Hippocampal Network Oscillations: Combining Multi-Electrode Recordings with Optical Imaging and Patch-Clamp Techniques. , 2006, , 454-469.		2
87	Keeping Inhibition Timely. Neuron, 2006, 49, 8-9.	3.8	9
88	From Invertebrate Olfaction to Human Cognition: Emerging Computational Functions of Synchronized Oscillatory Activity. Journal of Neuroscience, 2006, 26, 1661-1662.	1.7	16
89	Synaptic Currents in Anatomically Identified CA3 Neurons during Hippocampal Gamma Oscillations In Vitro. Journal of Neuroscience, 2006, 26, 9923-9934.	1.7	129
90	Network Oscillations: Emerging Computational Principles. Journal of Neuroscience, 2006, 26, 1673-1676.	1.7	256

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91	Matching storage and recall: hippocampal spike timing–dependent plasticity and phase response curves. Nature Neuroscience, 2005, 8, 1677-1683.	7.1	112
92	Hippocampal gamma-frequency oscillations: from interneurones to pyramidal cells, and back. Journal of Physiology, 2005, 562, 55-63.	1.3	126
93	Mechanisms underlying gamma (â€~40 Hz') network oscillations in the hippocampus—a mini-review. Progress in Biophysics and Molecular Biology, 2005, 87, 67-76.	1.4	60
94	Perisomatic Feedback Inhibition Underlies Cholinergically Induced Fast Network Oscillations in the Rat Hippocampus In Vitro. Neuron, 2005, 45, 105-117.	3.8	293
95	Dissociation of experience-dependent and -independent changes in excitatory synaptic transmission during development of barrel cortex. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15518-15523.	3.3	60
96	Preferential Origin and Layer Destination of GAD65-GFP Cortical Interneurons. Cerebral Cortex, 2004, 14, 1122-1133.	1.6	266
97	Spike Timing of Distinct Types of GABAergic Interneuron during Hippocampal Gamma Oscillations In Vitro. Journal of Neuroscience, 2004, 24, 9127-9137.	1.7	288
98	Properties of horizontal axo-axonic cells in stratum oriens of the hippocampal CA1 area of rats in vitro. Hippocampus, 2004, 14, 232-243.	0.9	37
99	Distinct properties of carbachol- and DHPG-induced network oscillations in hippocampal slices. Neuropharmacology, 2004, 47, 381-389.	2.0	102
100	Blockade of GABAB Receptors Alters the Tangential Migration of Cortical Neurons. Cerebral Cortex, 2003, 13, 932-942.	1.6	122
101	Maturation of Long-Term Potentiation Induction Rules in Rodent Hippocampus: Role of GABAergic Inhibition. Journal of Neuroscience, 2003, 23, 11142-11146.	1.7	142
102	Expression and distribution of metabotropic GABA receptor subtypes GABABR1 and GABABR2 during rat neocortical development. European Journal of Neuroscience, 2002, 15, 1766-1778.	1.2	108
103	Flies put the buzz back into long-term-potentiation. Nature Neuroscience, 2002, 5, 289-290.	7.1	8
104	New excitement in cognitive space: between place cells and spatial memory. Current Opinion in Neurobiology, 2001, 11, 745-751.	2.0	47
105	Distinct frequency preferences of different types of rat hippocampal neurones in response to oscillatory input currents. Journal of Physiology, 2000, 529, 205-213.	1.3	326
106	Natural patterns of activity and long-term synaptic plasticity. Current Opinion in Neurobiology, 2000, 10, 172-180.	2.0	274
107	Postsynaptic bursting is essential for â€~Hebbian' induction of associative long-term potentiation at excitatory synapses in rat hippocampus. Journal of Physiology, 1999, 518, 571-576.	1.3	200
108	Cholinergic induction of network oscillations at 40 Hz in the hippocampus in vitro. Nature, 1998, 394, 186-189.	13.7	793

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109	Association between the low threshold calcium spike and activation of NMDA receptors in guinea-pig substantia nigra pars compacta neurons. European Journal of Neuroscience, 1998, 10, 2009-2015.	1.2	6
110	A model of hippocampal memory encoding and retrieval: GABAergic control of synaptic plasticity. Trends in Neurosciences, 1998, 21, 273-278.	4.2	296
111	Importance of the Intracellular Domain of NR2 Subunits for NMDA Receptor Function In Vivo. Cell, 1998, 92, 279-289.	13.5	419
112	Effect, number and location of synapses made by single pyramidal cells onto aspiny interneurones of cat visual cortex Journal of Physiology, 1997, 500, 689-713.	1.3	149
113	Quantal properties of spontaneous EPSCs in neurones of the guineaâ€pig dorsal lateral geniculate nucleus Journal of Physiology, 1996, 496, 759-772.	1.3	31
114	Synchronization of neuronal activity in hippocampus by individual GABAergic interneurons. Nature, 1995, 378, 75-78.	13.7	1,349
115	The quantal size at retinogeniculate synapses determined from spontaneous and evoked EPSCs in guineaâ€pig thalamic slices Journal of Physiology, 1994, 480, 505-511.	1.3	45
116	Specificity of protein kinase inhibitor peptides and induction of long-term potentiation Proceedings of the United States of America, 1994, 91, 4761-4765.	3.3	95
117	Failure to Induce Long-term Depression by an Anti-Correlation Procedure in Area CA1 of the Rat Hippocampal Slice. European Journal of Neuroscience, 1993, 5, 1241-1246.	1.2	30
118	Short-Term Exposure to Bilirubin Reduces Synaptic Activation in Rat Transverse Hippocampal Slices. Pediatric Research, 1988, 23, 453-456.	1.1	38
119	An endoscopic drainage procedure for afferent loop occlusion. Gastrointestinal Endoscopy, 1987, 33, 125-126.	0.5	8
120	Cellular mechanisms underlying network synchrony in the medial temporal lobe. , 0, , 21-48.		0
121	Genes Involved in the Formation of the Earliest Cortical Circuits. Novartis Foundation Symposium, 0, , 212-229.	1.2	6