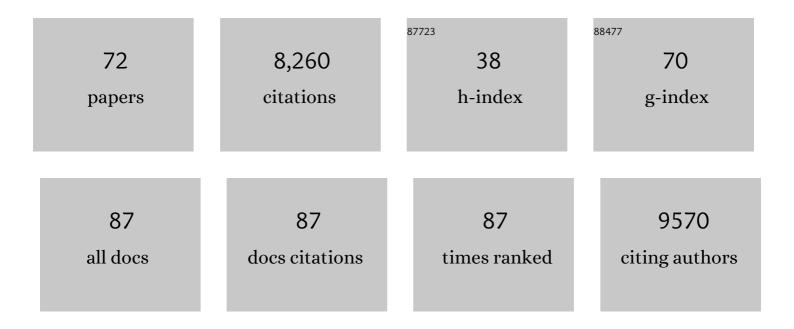
Alexander Gottschalk

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Optogenetic tools for manipulation of cyclic nucleotides functionally coupled to cyclic nucleotideâ€gated channels. British Journal of Pharmacology, 2022, 179, 2519-2537.	2.7	6
2	Microbial Rhodopsin Optogenetic Tools: Application for Analyses of Synaptic Transmission and of Neuronal Network Activity in Behavior. Methods in Molecular Biology, 2022, 2468, 89-115.	0.4	0
3	Photoactivated Adenylyl Cyclases as Optogenetic Modulators of Neuronal Activity. Methods in Molecular Biology, 2022, 2483, 61-76.	0.4	5
4	Synapsin Is Required for Dense Core Vesicle Capture and cAMP-Dependent Neuropeptide Release. Journal of Neuroscience, 2021, 41, 4187-4201.	1.7	6
5	BiPOLES is an optogenetic tool developed for bidirectional dual-color control of neurons. Nature Communications, 2021, 12, 4527.	5.8	73
6	Epidermal Growth Factor Signaling Promotes Sleep through a Combined Series and Parallel Neural Circuit. Current Biology, 2020, 30, 1-16.e13.	1.8	264
7	RPamide neuropeptides NLP-22 and NLP-2 act through GnRH-like receptors to promote sleep and wakefulness in C. elegans. Scientific Reports, 2020, 10, 9929.	1.6	9
8	Context-dependent operation of neural circuits underlies a navigation behavior in <i>Caenorhabditis elegans</i> . Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6178-6188.	3.3	32
9	Transcriptional adaptation in Caenorhabditis elegans. ELife, 2020, 9, .	2.8	32
10	Optogenetic analyses of neuronal networks that generate behavior in <i>Caenorhabditis elegans</i> . Neuroforum, 2020, 26, 227-237.	0.2	1
11	Using a Robust and Sensitive GFP-Based cGMP Sensor for Real-Time Imaging in Intact <i>Caenorhabditis elegans</i> . Genetics, 2019, 213, 59-77.	1.2	23
12	A GABAergic and peptidergic sleep neuron as a locomotion stop neuron with compartmentalized Ca2+ dynamics. Nature Communications, 2019, 10, 4095.	5.8	39
13	A Photoactivatable Botulinum Neurotoxin for Inducible Control of Neurotransmission. Neuron, 2019, 101, 863-875.e6.	3.8	45
14	Rhodopsin-based voltage imaging tools for use in muscles and neurons of <i>Caenorhabditis elegans</i> . Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17051-17060.	3.3	34
15	Expanding the Optogenetics Toolkit by Topological Inversion of Rhodopsins. Cell, 2018, 175, 1131-1140.e11.	13.5	30
16	Food Sensation Modulates Locomotion by Dopamine and Neuropeptide Signaling in a Distributed Neuronal Network. Neuron, 2018, 100, 1414-1428.e10.	3.8	69
17	Endophilin A and B Join Forces With Clathrin to Mediate Synaptic Vesicle Recycling in Caenorhabditis elegans. Frontiers in Molecular Neuroscience, 2018, 11, 196.	1.4	19
18	Rhodopsin optogenetic toolbox v2.0 for light-sensitive excitation and inhibition in Caenorhabditis elegans. PLoS ONF, 2018, 13, e0191802.	1.1	44

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19	Functionally asymmetric motor neurons contribute to coordinating locomotion of Caenorhabditis elegans. ELife, 2018, 7, .	2.8	32
20	Fast cAMP Modulation of Neurotransmission via Neuropeptide Signals and Vesicle Loading. Current Biology, 2017, 27, 495-507.	1.8	71
21	An optogenetic arrhythmia model to study catecholaminergic polymorphic ventricular tachycardia mutations. Scientific Reports, 2017, 7, 17514.	1.6	17
22	DFG Schwerpunktprogramm (SPP) 1926 "Next Generation Optogenetics – Tools and Application― E-Neuroforum, 2017, 23, .	0.2	0
23	RIC-3 phosphorylation enables dual regulation of excitation and inhibition of <i>Caenorhabditis elegans </i> muscle. Molecular Biology of the Cell, 2016, 27, 2994-3003.	0.9	11
24	Photoswitchable diacylglycerols enable optical control of protein kinase C. Nature Chemical Biology, 2016, 12, 755-762.	3.9	112
25	Arrhythmogenic effects of mutated L-type Ca2+-channels on an optogenetically paced muscular pump in Caenorhabditis elegans. Scientific Reports, 2015, 5, 14427.	1.6	17
26	Microbial Rhodopsin Optogenetic Tools: Application for Analyses of Synaptic Transmission and of Neuronal Network Activity in Behavior. Methods in Molecular Biology, 2015, 1327, 87-103.	0.4	14
27	A consistent muscle activation strategy underlies crawling and swimming in <i>Caenorhabditis elegans</i> . Journal of the Royal Society Interface, 2015, 12, 20140963.	1.5	47
28	AzoCholine Enables Optical Control of Alpha 7 Nicotinic Acetylcholine Receptors in Neural Networks. ACS Chemical Neuroscience, 2015, 6, 701-707.	1.7	49
29	Optogenetic manipulation of cGMP in cells and animals by the tightly light-regulated guanylyl-cyclase opsin CyclOp. Nature Communications, 2015, 6, 8046.	5.8	95
30	A photosensitive degron enables acute light-induced protein degradation in the nervous system. Current Biology, 2015, 25, R749-R750.	1.8	39
31	High-Throughput All-Optical Analysis of Synaptic Transmission and Synaptic Vesicle Recycling in Caenorhabditis elegans. PLoS ONE, 2015, 10, e0135584.	1.1	20
32	Cholinergic Photopharmacology – Controlling nicotinic and muscarinic Acetylcholine Receptors with Photoswitchable Molecules. FASEB Journal, 2015, 29, 933.5.	0.2	1
33	Optogenetische Analyse der Funktion neuronaler Netzwerke und der synaptischen Transmission in Caenorhabditis elegans. E-Neuroforum, 2014, 20, 278-286.	0.2	0
34	Optogenetic analyses of neuronal network function and synaptic transmission in Caenorhabditis elegans. E-Neuroforum, 2014, 5, 77-85.	0.2	1
35	Synthetic retinal analogues modify the spectral and kinetic characteristics of microbial rhodopsin optogenetic tools. Nature Communications, 2014, 5, 5810.	5.8	42
36	Caenorhabditis elegans nicotinic acetylcholine receptors are required for nociception. Molecular and Cellular Neurosciences, 2014, 59, 85-96.	1.0	26

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37	Photoactivated Adenylyl Cyclases as Optogenetic Modulators of Neuronal Activity. Methods in Molecular Biology, 2014, 1148, 161-175.	0.4	7
38	Sensory Neuron Fates Are Distinguished by a Transcriptional Switch that Regulates Dendrite Branch Stabilization. Neuron, 2013, 79, 266-280.	3.8	104
39	Optogenetic manipulation of neural activity in <i>C. elegans</i> : From synapse to circuits and behaviour. Biology of the Cell, 2013, 105, 235-250.	0.7	80
40	Genetically encoded calcium indicators for multi-color neural activity imaging and combination with optogenetics. Frontiers in Molecular Neuroscience, 2013, 6, 2.	1.4	629
41	In vivo synaptic recovery following optogenetic hyperstimulation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3007-16.	3.3	64
42	Keeping track of worm trackers. WormBook, 2013, , 1-17.	5.3	89
43	RAB-5 and RAB-10 cooperate to regulate neuropeptide release in <i>Caenorhabditis elegans</i> . Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18944-18949.	3.3	47
44	A multispectral optical illumination system with precise spatiotemporal control for the manipulation of optogenetic reagents. Nature Protocols, 2012, 7, 207-220.	5.5	58
45	Optogenetic Analysis of a Nociceptor Neuron and Network Reveals Ion Channels Acting Downstream of Primary Sensors. Current Biology, 2012, 22, 743-752.	1.8	75
46	Lightâ€Controlled Tools. Angewandte Chemie - International Edition, 2012, 51, 8446-8476.	7.2	799
47	Microbial Light-Activatable Proton Pumps as Neuronal Inhibitors to Functionally Dissect Neuronal Networks in C. elegans. PLoS ONE, 2012, 7, e40937.	1.1	57
48	Specific Expression of Channelrhodopsin-2 in Single Neurons of Caenorhabditis elegans. PLoS ONE, 2012, 7, e43164.	1.1	69
49	Bimodal Activation of Different Neuron Classes with the Spectrally Red-Shifted Channelrhodopsin Chimera C1V1 in Caenorhabditis elegans. PLoS ONE, 2012, 7, e46827.	1.1	55
50	Real-time multimodal optical control of neurons and muscles in freely behaving Caenorhabditis elegans. Nature Methods, 2011, 8, 153-158.	9.0	192
51	Optogenetic Long-Term Manipulation of Behavior and Animal Development. PLoS ONE, 2011, 6, e18766.	1.1	55
52	PACα- an optogenetic tool for in vivo manipulation of cellular cAMP levels, neurotransmitter release, and behavior in Caenorhabditis elegans. Journal of Neurochemistry, 2011, 116, 616-625.	2.1	82
53	Optogenetic analysis of GABA _B receptor signaling in <i>Caenorhabditis elegans</i> motor neurons. Journal of Neurophysiology, 2011, 106, 817-827.	0.9	36
54	<i>Caenorhabditis elegans</i> selects distinct crawling and swimming gaits via dopamine and serotonin. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17504-17509.	3.3	147

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55	High-throughput study of synaptic transmission at the neuromuscular junction enabled by optogenetics and microfluidics. Journal of Neuroscience Methods, 2010, 191, 90-93.	1.3	64
56	The Conserved RIC-3 Coiled-Coil Domain Mediates Receptor-specific Interactions with Nicotinic Acetylcholine Receptors. Molecular Biology of the Cell, 2009, 20, 1419-1427.	0.9	17
57	An ER-resident membrane protein complex regulates nicotinic acetylcholine receptor subunit composition at the synapse. EMBO Journal, 2009, 28, 2636-2649.	3.5	50
58	Optogenetic analysis of synaptic function. Nature Methods, 2008, 5, 895-902.	9.0	184
59	Intestinal signaling to GABAergic neurons regulates a rhythmic behavior in <i>Caenorhabditis elegans</i> . Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 16350-16355.	3.3	72
60	Regulation of nicotinic receptor trafficking by the transmembrane Golgi protein UNC-50. EMBO Journal, 2007, 26, 4313-4323.	3.5	65
61	Multimodal fast optical interrogation of neural circuitry. Nature, 2007, 446, 633-639.	13.7	1,602
62	Visualization of integral and peripheral cell surface proteins in live Caenorhabditis elegans. Journal of Neuroscience Methods, 2006, 154, 68-79.	1.3	44
63	Identification and characterization of novel nicotinic receptor-associated proteins in Caenorhabditis elegans. EMBO Journal, 2005, 24, 2566-2578.	3.5	160
64	Light Activation of Channelrhodopsin-2 in Excitable Cells of Caenorhabditis elegans Triggers Rapid Behavioral Responses. Current Biology, 2005, 15, 2279-2284.	1.8	869
65	eat-2 and eat-18 Are Required for Nicotinic Neurotransmission in the Caenorhabditis elegans Pharynx. Genetics, 2004, 166, 161-169.	1.2	143
66	Direct probing of RNA structure and RNA-protein interactions in purified HeLa cell's and yeast spliceosomal U4/U6.U5 tri-snRNP particles 1 1Edited by J. Doudna. Journal of Molecular Biology, 2002, 317, 631-649.	2.0	39
67	A Novel Yeast U2 snRNP Protein, Snu17p, Is Required for the First Catalytic Step of Splicing and for Progression of Spliceosome Assembly. Molecular and Cellular Biology, 2001, 21, 3037-3046.	1.1	35
68	The yeast U5 snRNP coisolated with the U1 snRNP has an unexpected protein composition and includes the splicing factor Aar2p. Rna, 2001, 7, 1554-65.	1.6	36
69	Identification by mass spectrometry and functional analysis of novel proteins of the yeast [U4/U6middle dotU5] tri-snRNP. EMBO Journal, 1999, 18, 4535-4548.	3.5	154
70	Interaction of the U1 snRNP with nonconserved intronic sequences affects 5' splice site selection. Genes and Development, 1999, 13, 569-580.	2.7	107
71	Cbf5p, a potential pseudouridine synthase, and Nhp2p, a putative RNA-binding protein, are present together with Gar1p in all H BOX/ACA-motif snoRNPs and constitute a common bipartite structure. Rna, 1998, 4, 1549-1568.	1.6	195
72	Identification of the proteins of the yeast U1 small nuclear ribonucleoprotein complex by mass spectrometry. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 385-390.	3.3	191