

# Gero Miesenböck

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8589050/publications.pdf>

Version: 2024-02-01

41  
papers

9,529  
citations

126708

33  
h-index

264894

42  
g-index

45  
all docs

45  
docs citations

45  
times ranked

10766  
citing authors

#	ARTICLE	IF	CITATIONS
1	Visualizing secretion and synaptic transmission with pH-sensitive green fluorescent proteins. <i>Nature</i> , 1998, 394, 192-195.	13.7	2,864
2	Next-Generation Optical Technologies for Illuminating Genetically Targeted Brain Circuits. <i>Journal of Neuroscience</i> , 2006, 26, 10380-10386.	1.7	708
3	Remote Control of Behavior through Genetically Targeted Photostimulation of Neurons. <i>Cell</i> , 2005, 121, 141-152.	13.5	506
4	A Selective Activity-Dependent Requirement for Dynamin 1 in Synaptic Vesicle Endocytosis. <i>Science</i> , 2007, 316, 570-574.	6.0	454
5	Writing Memories with Light-Addressable Reinforcement Circuitry. <i>Cell</i> , 2009, 139, 405-415.	13.5	444
6	Selective Photostimulation of Genetically ChARGed Neurons. <i>Neuron</i> , 2002, 33, 15-22.	3.8	423
7	Transmission of Olfactory Information between Three Populations of Neurons in the Antennal Lobe of the Fly. <i>Neuron</i> , 2002, 36, 463-474.	3.8	422
8	Excitatory Local Circuits and Their Implications for Olfactory Processing in the Fly Antennal Lobe. <i>Cell</i> , 2007, 128, 601-612.	13.5	306
9	Sex-Specific Control and Tuning of the Pattern Generator for Courtship Song in <i>Drosophila</i> . <i>Cell</i> , 2008, 133, 354-363.	13.5	279
10	Sparse, decorrelated odor coding in the mushroom body enhances learned odor discrimination. <i>Nature Neuroscience</i> , 2014, 17, 559-568.	7.1	268
11	Operation of a homeostatic sleep switch. <i>Nature</i> , 2016, 536, 333-337.	13.7	241
12	Neuronal Machinery of Sleep Homeostasis in <i>Drosophila</i> . <i>Neuron</i> , 2014, 81, 860-872.	3.8	229
13	The Optogenetic Catechism. <i>Science</i> , 2009, 326, 395-399.	6.0	228
14	The columnar and laminar organization of inhibitory connections to neocortical excitatory cells. <i>Nature Neuroscience</i> , 2011, 14, 100-107.	7.1	223
15	Photochemical gating of heterologous ion channels: Remote control over genetically designated populations of neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 1352-1357.	3.3	221
16	Recurrent Circuitry for Balancing Sleep Need and Sleep. <i>Neuron</i> , 2018, 97, 378-389.e4.	3.8	172
17	Optogenetic Control of Cells and Circuits. <i>Annual Review of Cell and Developmental Biology</i> , 2011, 27, 731-758.	4.0	149
18	OPTICAL IMAGING AND CONTROL OF GENETICALLY DESIGNATED NEURONS IN FUNCTIONING CIRCUITS. <i>Annual Review of Neuroscience</i> , 2005, 28, 533-563.	5.0	132

#	ARTICLE	IF	CITATIONS
19	Optogenetics: 10 years after ChR2 in neurons—views from the community. <i>Nature Neuroscience</i> , 2015, 18, 1202-1212.	7.1	122
20	Odor Discrimination in <i>Drosophila</i> : From Neural Population Codes to Behavior. <i>Neuron</i> , 2013, 79, 932-944.	3.8	118
21	A potassium channel $\beta$ -subunit couples mitochondrial electron transport to sleep. <i>Nature</i> , 2019, 568, 230-234.	13.7	117
22	Neurotechnology: Summa technologiae. <i>Current Opinion in Neurobiology</i> , 2012, 22, 1-2.	2.0	99
23	FoxP influences the speed and accuracy of a perceptual decision in <i>Drosophila</i> . <i>Science</i> , 2014, 344, 901-904.	6.0	85
24	Video-Rate Nonlinear Microscopy of Neuronal Membrane Dynamics With Genetically Encoded Probes. <i>Journal of Neurophysiology</i> , 2004, 92, 609-621.	0.9	68
25	GABAergic interneurons form transient layer-specific circuits in early postnatal neocortex. <i>Nature Communications</i> , 2016, 7, 10584.	5.8	66
26	Photocontrol of Neural Activity: Biophysical Mechanisms and Performance <i>in Vivo</i> . <i>Chemical Reviews</i> , 2008, 108, 1588-1602.	23.0	61
27	Synapto-pHluorins: Genetically Encoded Reporters of Synaptic Transmission. <i>Cold Spring Harbor Protocols</i> , 2012, 2012, pdb.ip067827.	0.2	58
28	Optical Recording of Action Potentials and Other Discrete Physiological Events: A Perspective from Signal Detection Theory. <i>Physiology</i> , 2007, 22, 47-55.	1.6	57
29	Dendritic Integration of Sensory Evidence in Perceptual Decision-Making. <i>Cell</i> , 2018, 173, 894-905.e13.	13.5	55
30	Genetic methods for illuminating the function of neural circuits. <i>Current Opinion in Neurobiology</i> , 2004, 14, 395-402.	2.0	53
31	Rational Optimization and Imaging <i>In Vivo</i> of a Genetically Encoded Optical Voltage Reporter. <i>Journal of Neuroscience</i> , 2008, 28, 5582-5593.	1.7	50
32	Cell-Specific Targeting of Genetically Encoded Tools for Neuroscience. <i>Annual Review of Genetics</i> , 2016, 50, 571-594.	3.2	49
33	EFFECT OF PANCREAS TRANSPLANTATION ON LIPOPROTEIN LIPASE, POSTPRANDIAL LIPEMIA, AND HDL CHOLESTEROL. <i>Transplantation</i> , 1994, 58, 899-904.	0.5	38
34	Mapping the function of neuronal ion channels in model and experiment. <i>ELife</i> , 2017, 6, .	2.8	33
35	Genetic schemes and schemata in neurophysiology. <i>Current Opinion in Neurobiology</i> , 2001, 11, 409-414.	2.0	27
36	Mechanisms of Sensory Discrimination: Insights from <i>Drosophila</i> Olfaction. <i>Annual Review of Biophysics</i> , 2019, 48, 209-229.	4.5	24

#	ARTICLE	IF	CITATIONS
37	Experience-Dependent Rewiring of Specific Inhibitory Connections in Adult Neocortex. PLoS Biology, 2014, 12, e1001798.	2.6	22
38	Postcoital Finesse. Neuron, 2009, 61, 491-493.	3.8	5
39	Lighting up the Brain. Scientific American, 2008, 299, 52-59.	1.0	4
40	Writing Memories with Light-Addressable Reinforcement Circuitry. Cell, 2009, 139, 1022.	13.5	3
41	New technologies. Current Opinion in Neurobiology, 2005, 15, 557-559.	2.0	1