Erik M Jorgensen

List of Publications by Year
in descending order

126 papers	15,500 citations	22548 61 h-index	22488 117 g-index
136 all docs	136 docs citations	136 times ranked	13784 citing authors

#	Article	IF	Citations
1	Scan-less machine-learning-enabled incoherent microscopy for minimally-invasive deep-brain imaging. Optics Express, 2022, 30, 1546.	1.7	8
2	The mapping locus is encoded by a gain-of-function mutation in .. MicroPublication Biology, 2022, 2022, .	0.1	1
3	Interspecies complementation identifies a pathway to assemble SNAREs. IScience, 2022, 25, 104506.	1.9	2
4	High-efficiency CRISPR gene editing in C. elegans using Cas9 integrated into the genome. PLoS Genetics, 2021, 17, e1009755.	1.5	18
5	Casein Kinase 1Î´ Stabilizes Mature Axons by Inhibiting Transcription Termination of Ankyrin. Developmental Cell, 2020, 52, 88-103.e18.	3.1	15
6	Synaptic vesicles transiently dock to refill release sites. Nature Neuroscience, 2020, 23, 1329-1338.	7.1	92
7	Comparative Peptidomic and Metatranscriptomic Analyses Reveal Improved Gamma-Amino Butyric Acid Production Machinery in Levilactobacillus brevis Strain NPS-QW 145 Cocultured with Streptococcus thermophilus Strain ASCC1275 during Milk Fermentation. Applied and Environmental Microbiology, 2020, 87, .	1.4	12
8	SynapsEM: Computer-Assisted Synapse Morphometry. Frontiers in Synaptic Neuroscience, 2020, 12, 584549.	1.3	20
9	Plasma membrane tension regulates eisosome structure and function. Molecular Biology of the Cell, 2020, 31, 287-303.	0.9	38
10	A Proposed Method for Optimizing the Spectral Discernibility of Engineered Point-spread Functions for Localization Microscopy. Microscopy and Microanalysis, 2019, 25, 1232-1233.	0.2	2
11	Precisely Localizing Wavelength Sensitive Point-Spread Functions Engineered With a Silicon Oxide Phase Plate. Microscopy and Microanalysis, 2018, 24, 1364-1365.	0.2	4
12	Î³-Neurexin and Frizzled Mediate Parallel Synapse Assembly Pathways Antagonized by Receptor Endocytosis. Neuron, 2018, 100, 150-166.e4.	3.8	57
13	Synaptojanin and Endophilin Mediate Neck Formation during Ultrafast Endocytosis. Neuron, 2018, 98, 1184-1197.e6.	3.8	85
14	The NCA-1 and NCA-2 Ion Channels Function Downstream of Gq and Rho To Regulate Locomotion in Caenorhabditis elegans. Genetics, 2017, 206, 265-282.	1.2	26
15	Brain Slice Staining and Preparation for Three-Dimensional Super-Resolution Microscopy. Methods in Molecular Biology, 2017, 1663, 153-162.	0.4	10
16	Unc13 Aligns SNAREs and Superprimes Synaptic Vesicles. Neuron, 2017, 95, 473-475.	3.8	19
17	AIP limits neurotransmitter release by inhibiting calcium bursts from the ryanodine receptor. Nature Communications, 2017, 8, 1380.	5.8	16
18	An Abundant Class of Non-coding DNA Can Prevent Stochastic Gene Silencing in the C.Âelegans Germline. Cell, 2016, 166, 343-357.	13.5	92

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19	Glycolytic Enzymes Localize to Synapses under Energy Stress to Support Synaptic Function. Neuron, 2016, 90, 278-291.	3.8	222
20	Two Clathrin Adaptor Protein Complexes Instruct Axon-Dendrite Polarity. Neuron, 2016, 90, 564-580.	3.8	55
21	Organometallic Derivatization of the Nematocidal Drug Monepantel Leads to Promising Antiparasitic Drug Candidates. Chemistry - A European Journal, 2016, 22, 16602-16612.	1.7	19
22	NALCN channelopathies. Neurology, 2016, 87, 1131-1139.	1.5	36
23	Analysis of alin-42/periodNull Allele Implicates All Three Isoforms in Regulation ofCaenorhabditis elegansMolting and Developmental Timing. G3: Genes, Genomes, Genetics, 2016, 6, 4077-4086.	0.8	18
24	SapTrap, a Toolkit for High-Throughput CRISPR/Cas9 Gene Modification in Caenorhabditis elegans. Genetics, 2016, 202, 1277-1288.	1.2	157
25	SLO BK Potassium Channels Couple Gap Junctions to Inhibition of Calcium Signaling in Olfactory Neuron Diversification. PLoS Genetics, 2016, 12, e1005654.	1.5	20
26	Spillover Transmission Is Mediated by the Excitatory GABA Receptor LGC-35 inC. elegans. Journal of Neuroscience, 2015, 35, 2803-2816.	1.7	24
27	Improved localization accuracy in stochastic super-resolution fluorescence microscopy by K-factor image deshadowing. Biomedical Optics Express, 2014, 5, 244.	1.5	7
28	Exciting Cell Membranes with a Blustering Heat Shock. Biophysical Journal, 2014, 106, 1570-1577.	0.2	69
29	Axon Regeneration Genes Identified by RNAi Screening inC. elegans. Journal of Neuroscience, 2014, 34, 629-645.	1.7	87
30	Visualizing presynaptic function. Nature Neuroscience, 2014, 17, 10-16.	7.1	112
31	Random and targeted transgene insertion in Caenorhabditis elegans using a modified Mos1 transposon. Nature Methods, 2014, 11, 529-534.	9.0	321
32	Clathrin regenerates synaptic vesicles from endosomes. Nature, 2014, 515, 228-233.	13.7	272
33	Animal Evolution: Looking for the First Nervous System. Current Biology, 2014, 24, R655-R658.	1.8	23
34	Two Rab2 Interactors Regulate Dense-Core Vesicle Maturation. Neuron, 2014, 82, 167-180.	3.8	69
35	Axons Degenerate in the Absence of Mitochondria in C.Âelegans. Current Biology, 2014, 24, 760-765.	1.8	86
36	The membrane-associated proteins FCHo and SGIP are allosteric activators of the AP2 clathrin adaptor complex. ELife, 2014, 3, .	2.8	75

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37	Synapse Location during Growth Depends on Glia Location. Cell, 2013, 154, 337-350.	13.5	68
38	Asymmetric packaging of polymerases within vesicular stomatitis virus. Biochemical and Biophysical Research Communications, 2013, 440, 271-276.	1.0	16
39	Ultrafast endocytosis at mouse hippocampal synapses. Nature, 2013, 504, 242-247.	13.7	502
40	Two views on light sheets. Nature Biotechnology, 2013, 31, 992-993.	9.4	2
41	Image processing for super-resolution localization in fluorescence microscopy. , 2013, , .		0
42	Semi-Automated Neuron Boundary Detection and Nonbranching Process Segmentation in Electron Microscopy Images. Neuroinformatics, 2013, 11, 5-29.	1.5	24
43	NECAP 1 Regulates AP-2 Interactions to Control Vesicle Size, Number, and Cargo During Clathrin-Mediated Endocytosis. PLoS Biology, 2013, 11, e1001670.	2.6	61
44	Hyperactivation of B-Type Motor Neurons Results in Aberrant Synchrony of theCaenorhabditis elegansMotor Circuit. Journal of Neuroscience, 2013, 33, 5319-5325.	1.7	25
45	Betaine acts on a ligand-gated ion channel in the nervous system of the nematode C. elegans. Nature Neuroscience, 2013, 16, 1794-1801.	7.1	41
46	AP2 hemicomplexes contribute independently to synaptic vesicle endocytosis. ELife, 2013, 2, e00190.	2.8	63
47	Ultrafast endocytosis at Caenorhabditis elegans neuromuscular junctions. ELife, 2013, 2, e00723.	2.8	209
48	V-ATPase V1 Sector Is Required for Corpse Clearance and Neurotransmission in Caenorhabditis elegans. Genetics, 2012, 191, 461-475.	1.2	17
49	Sensation in a Single Neuron Pair Represses Male Behavior in Hermaphrodites. Neuron, 2012, 75, 593-600.	3.8	55
50	Improved Mos1-mediated transgenesis in C. elegans. Nature Methods, 2012, 9, 117-118.	9.0	397
51	Visualizing Proteins in Electron Micrographs at Nanometer Resolution. Methods in Cell Biology, 2012, 111, 283-306.	0.5	22
52	UNC-41/Stonin Functions with AP2 to Recycle Synaptic Vesicles in Caenorhabditis elegans. PLoS ONE, 2012, 7, e40095.	1.1	28
53	UNC119 is required for G protein trafficking in sensory neurons. Nature Neuroscience, 2011, 14, 874-880.	7.1	154
54	CYY-1/Cyclin Y and CDK-5 Differentially Regulate Synapse Elimination and Formation for Rewiring Neural Circuits. Neuron, 2011, 70, 742-757.	3.8	68

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55	Protein localization in electron micrographs using fluorescence nanoscopy. Nature Methods, 2011, 8, 80-84.	9.0	339
56	Muscle memory. Journal of Physiology, 2011, 589, 775-776.	1.3	4
57	Transcriptional profiling of C. elegans DAF-19 uncovers a ciliary base-associated protein and a CDK/CCRK/LF2p-related kinase required for intraflagellar transport. Developmental Biology, 2011, 357, 235-247.	0.9	65
58	Complexin Maintains Vesicles in the Primed State in C.Âelegans. Current Biology, 2011, 21, 106-113.	1.8	141
59	Membrane tension regulates motility by controlling lamellipodium organization. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11429-11434.	3.3	126
60	Opposing Activities of LIT-1/NLK and DAF-6/Patched-Related Direct Sensory Compartment Morphogenesis in C. elegans. PLoS Biology, 2011, 9, e1001121.	2.6	47
61	Detection of neuron membranes in electron microscopy images using a serial neural network architecture. Medical Image Analysis, 2010, 14, 770-783.	7.0	81
62	Targeted gene deletions in C. elegans using transposon excision. Nature Methods, 2010, 7, 451-453.	9.0	94
63	Syntaxin N-terminal peptide motif is an initiation factor for the assembly of the SNAREâ€“Sec1/Munc18 membrane fusion complex. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22399-22406.	3.3	114
64	Two Cyclin-Dependent Kinase Pathways Are Essential for Polarized Trafficking of Presynaptic Components. Cell, 2010, 141, 846-858.	13.5	144
65	Differential requirements for clathrin in receptor-mediated endocytosis and maintenance of synaptic vesicle pools. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1139-1144.	3.3	75
66	Graded synaptic transmission at the Caenorhabditis elegans neuromuscular junction. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10823-10828.	3.3	134
67	Axon Regeneration Requires a Conserved MAP Kinase Pathway. Science, 2009, 323, 802-806.	6.0	387
68	A Neuronal Acetylcholine Receptor Regulates the Balance of Muscle Excitation and Inhibition in Caenorhabditis elegans. PLoS Biology, 2009, 7, e1000265.	2.6	111
69	Calcium: an insignificant thing. Nature Neuroscience, 2009, 12, 1213-1214.	7.1	0
70	Single-copy insertion of transgenes in Caenorhabditis elegans. Nature Genetics, 2008, 40, 1375-1383.	9.4	1,057
71	Protons Act as a Transmitter for MuscleÂContraction in C. elegans. Cell, 2008, 132, 149-160.	13.5	117
72	C. elegans AP-2 and Retromer Control Wnt Signaling by Regulating MIG-14/Wntless. Developmental Cell, 2008, 14, 132-139.	3.1	189

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73	CAPS and syntaxin dock dense core vesicles to the plasma membrane in neurons. Journal of Cell Biology, 2008, 180, 483-491.	2.3	88
74	Î¼2 adaptin facilitates but is not essential for synaptic vesicle recycling inCaenorhabditis elegans. Journal of Cell Biology, 2008, 183, 881-892.	2.3	45
75	Gene Conversion and End-Joining-Repair Double-Strand Breaks in the Caenorhabditis elegans Germline. Genetics, 2008, 180, 673-679.	1.2	36
76	Gene Activation Using FLP Recombinase in C. elegans. PLoS Genetics, 2008, 4, e1000028.	1.5	120
77	Roles of SNARE Proteins in Synaptic Vesicle Fusion. , 2008, , 35-59.		4
78	UNC-31 (CAPS) Is Required for Dense-Core Vesicle But Not Synaptic Vesicle Exocytosis in Caenorhabditis elegans. Journal of Neuroscience, 2007, 27, 6150-6162.	1.7	261
79	Open Syntaxin Docks Synaptic Vesicles. PLoS Biology, 2007, 5, e198.	2.6	164
80	Axons break in animals lacking Î²-spectrin. Journal of Cell Biology, 2007, 176, 269-275.	2.3	207
81	Trioâ€™s Rho-specific GEF domain is the missing GÎ±_q effector in C. elegans. Genes and Development, 2007, 21, 2731-2746.	2.7	84
82	Molecular basis of synaptic vesicle cargo recognition by the endocytic sorting adaptor stonin 2. Journal of Cell Biology, 2007, 179, 1497-1510.	2.3	64
83	PKC Defends Crown Against Munc13. Neuron, 2007, 54, 179-180.	3.8	7
84	UNC-46 is required for trafficking of the vesicular GABA transporter. Nature Neuroscience, 2007, 10, 846-853.	7.1	48
85	The Plasma Membrane Calcium ATPase MCA-3 is Required for Clathrin-Mediated Endocytosis in Scavenger Cells of Caenorhabditis elegans. Traffic, 2007, 8, 543-553.	1.3	11
86	A Calcium Wave Mediated by Gap Junctions Coordinates a Rhythmic Behavior in C. elegans. Current Biology, 2007, 17, 1601-1608.	1.8	61
87	UNC-80 and the NCA Ion Channels Contribute to Endocytosis Defects in Synaptojanin Mutants. Current Biology, 2007, 17, 1595-1600.	1.8	90
88	The Sensory Circuitry for Sexual Attraction in C. elegans Males. Current Biology, 2007, 17, 1847-1857.	1.8	156
89	Residues in the first transmembrane domain of the Caenorhabditis elegans GABAA receptor confer sensitivity to the neurosteroid pregnenolone sulfate. British Journal of Pharmacology, 2006, 148, 162-172.	2.7	18
90	Induction and repair of zinc-finger nuclease-targeted double-strand breaks in Caenorhabditis elegans somatic cells. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16370-16375.	3.3	175

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91	Synaptic tetraspan vesicle membrane proteins are conserved but not needed for synaptogenesis and neuronal function in Caenorhabditis elegans. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8227-8232.	3.3	28
92	The composition of the GABA receptor at the Caenorhabditis elegans neuromuscular junction. British Journal of Pharmacology, 2005, 144, 502-509.	2.7	52
93	Rapid single nucleotide polymorphism mapping in C. elegans. BMC Genomics, 2005, 6, 118.	1.2	314
94	Characterization of Mos1-Mediated Mutagenesis in Caenorhabditis elegans. Genetics, 2005, 169, 1779-1785.	1.2	44
95	Heterozygous Insertions Alter Crossover Distribution but Allow Crossover Interference in Caenorhabditis elegans. Genetics, 2005, 171, 1047-1056.	1.2	38
96	GABA. WormBook, 2005, , 1-13.	5.3	69
97	Preservation of Immunoreactivity and Fine Structure of Adult C. elegans Tissues Using High-pressure Freezing. Journal of Histochemistry and Cytochemistry, 2004, 52, 1-12.	1.3	116
98	NEUROSCIENCE: Vesicular Glutamate Transporter–Shooting Blanks. Science, 2004, 304, 1750-1752.	6.0	29
99	Dopamine: should I stay or should I go now?. Nature Neuroscience, 2004, 7, 1019-1021.	7.1	9
100	The GABA nervous system in C. elegans. Trends in Neurosciences, 2004, 27, 407-414.	4.2	148
101	Pharmacological characterization of the homomeric and heteromeric UNC-49 GABA receptors in C. elegans. British Journal of Pharmacology, 2003, 138, 883-893.	2.7	50
102	Defects in synaptic vesicle docking in unc-18 mutants. Nature Neuroscience, 2003, 6, 1023-1030.	7.1	244
103	EXP-1 is an excitatory GABA-gated cation channel. Nature Neuroscience, 2003, 6, 1145-1152.	7.1	159
104	Endophilin Is Required for Synaptic Vesicle Endocytosis by Localizing Synaptojanin. Neuron, 2003, 40, 749-762.	3.8	253
105	Controversies in synaptic vesicle exocytosis. Journal of Cell Science, 2003, 116, 3661-3666.	1.2	56
106	Long chain polyunsaturated fatty acids are required for efficient neurotransmission in C. elegans. Journal of Cell Science, 2003, 116, 4965-4975.	1.2	139
107	The art and design of genetic screens: Caenorhabditis elegans. Nature Reviews Genetics, 2002, 3, 356-369.	7.7	385
108	Characterization of a dominant negativeC. elegansTwist mutant protein with implications for human Saethre-Chotzen syndrome. Development (Cambridge), 2002, 129, 2761-2772.	1.2	20

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109	Studies of Synaptic Vesicle Endocytosis in the Nematode C. elegans. Traffic, 2001, 2, 597-605.	1.3	22
110	A post-docking role for active zone protein Rim. Nature Neuroscience, 2001, 4, 997-1005.	7.1	291
111	An open form of syntaxin bypasses the requirement for UNC-13 in vesicle priming. Nature, 2001, 412, 338-341.	13.7	380
112	Mobilization of a Drosophila transposon in the Caenorhabditis elegans germ line. Nature, 2001, 413, 70-74.	13.7	147
113	Rules of Nonallelic Noncomplementation at the Synapse in Caenorhabditis elegans. Genetics, 2001, 158, 209-220.	1.2	45
114	Mutations in Synaptojanin Disrupt Synaptic Vesicle Recycling. Journal of Cell Biology, 2000, 150, 589-600.	2.3	247
115	Mutations in Î²-Spectrin Disrupt Axon Outgrowth and Sarcomere Structure. Journal of Cell Biology, 2000, 149, 931-942.	2.3	112
116	TheCaenorhabditis elegans unc-49Locus Encodes Multiple Subunits of a Heteromultimeric GABA Receptor. Journal of Neuroscience, 1999, 19, 5348-5359.	1.7	193
117	UNC-11, aCaenorhabditis elegansAP180 Homologue, Regulates the Size and Protein Composition of Synaptic Vesicles. Molecular Biology of the Cell, 1999, 10, 2343-2360.	0.9	251
118	One GABA and two acetylcholine receptors function at the C. elegans neuromuscular junction. Nature Neuroscience, 1999, 2, 791-797.	7.1	538
119	UNC-13 is required for synaptic vesicle fusion in C. elegans. Nature Neuroscience, 1999, 2, 959-964.	7.1	547
120	The Inositol Trisphosphate Receptor Regulates a 50-Second Behavioral Rhythm in C. elegans. Cell, 1999, 98, 757-767.	13.5	195
121	C. elegans neuroscience: genetics to genome. Trends in Genetics, 1998, 14, 506-512.	2.9	38
122	Wormwholes: A Commentary on K. F. Schaffner's "Genes, Behavior, and Developmental Emergentism". Philosophy of Science, 1998, 65, 259-266.	0.5	26
123	Caenorhabditis elegans rab-3Mutant Synapses Exhibit Impaired Function and Are Partially Depleted of Vesicles. Journal of Neuroscience, 1997, 17, 8061-8073.	1.7	350
124	Identification and characterization of the vesicular GABA transporter. Nature, 1997, 389, 870-876.	13.7	809
125	Defective recycling of synaptic vesicles in synaptotagmin mutants of Caenorhabditis elegans. Nature, 1995, 378, 196-199.	13.7	303
126	Neuromuscular junctions in the nematode C. elegans. Seminars in Developmental Biology, 1995, 6, 207-220.	1.3	37