

Erik M Jorgensen

List of Publications by Year in descending order

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Version: 2024-02-01

126
papers

15,500
citations

19636

61
h-index

19726

117
g-index

136
all docs

136
docs citations

136
times ranked

12400
citing authors

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

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

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37	Synapse Location during Growth Depends on Glia Location. <i>Cell</i> , 2013, 154, 337-350.	13.5	68
38	Asymmetric packaging of polymerases within vesicular stomatitis virus. <i>Biochemical and Biophysical Research Communications</i> , 2013, 440, 271-276.	1.0	16
39	Ultrafast endocytosis at mouse hippocampal synapses. <i>Nature</i> , 2013, 504, 242-247.	13.7	502
40	Two views on light sheets. <i>Nature Biotechnology</i> , 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. <i>Neuroinformatics</i> , 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. <i>PLoS Biology</i> , 2013, 11, e1001670.	2.6	61
44	Hyperactivation of B-Type Motor Neurons Results in Aberrant Synchrony of the <i>Caenorhabditis elegans</i> Motor Circuit. <i>Journal of Neuroscience</i> , 2013, 33, 5319-5325.	1.7	25
45	Betaine acts on a ligand-gated ion channel in the nervous system of the nematode <i>C. elegans</i> . <i>Nature Neuroscience</i> , 2013, 16, 1794-1801.	7.1	41
46	AP2 hemicomplexes contribute independently to synaptic vesicle endocytosis. <i>ELife</i> , 2013, 2, e00190.	2.8	63
47	Ultrafast endocytosis at <i>Caenorhabditis elegans</i> neuromuscular junctions. <i>ELife</i> , 2013, 2, e00723.	2.8	209
48	V-ATPase V1 Sector Is Required for Corpse Clearance and Neurotransmission in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2012, 191, 461-475.	1.2	17
49	Sensation in a Single Neuron Pair Represses Male Behavior in Hermaphrodites. <i>Neuron</i> , 2012, 75, 593-600.	3.8	55
50	Improved Mos1-mediated transgenesis in <i>C. elegans</i> . <i>Nature Methods</i> , 2012, 9, 117-118.	9.0	397
51	Visualizing Proteins in Electron Micrographs at Nanometer Resolution. <i>Methods in Cell Biology</i> , 2012, 111, 283-306.	0.5	22
52	UNC-41/Stonin Functions with AP2 to Recycle Synaptic Vesicles in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2012, 7, e40095.	1.1	28
53	UNC119 is required for G protein trafficking in sensory neurons. <i>Nature Neuroscience</i> , 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. <i>Neuron</i> , 2011, 70, 742-757.	3.8	68

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55	Protein localization in electron micrographs using fluorescence nanoscopy. <i>Nature Methods</i> , 2011, 8, 80-84.	9.0	339
56	Muscle memory. <i>Journal of Physiology</i> , 2011, 589, 775-776.	1.3	4
57	Transcriptional profiling of <i>C. elegans</i> DAF-19 uncovers a ciliary base-associated protein and a CDK/CCRK/LF2p-related kinase required for intraflagellar transport. <i>Developmental Biology</i> , 2011, 357, 235-247.	0.9	65
58	Complexin Maintains Vesicles in the Primed State in <i>C. elegans</i> . <i>Current Biology</i> , 2011, 21, 106-113.	1.8	141
59	Membrane tension regulates motility by controlling lamellipodium organization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11429-11434.	3.3	126
60	Opposing Activities of LIT-1/NLK and DAF-6/Patched-Related Direct Sensory Compartment Morphogenesis in <i>C. elegans</i> . <i>PLoS Biology</i> , 2011, 9, e1001121.	2.6	47
61	Detection of neuron membranes in electron microscopy images using a serial neural network architecture. <i>Medical Image Analysis</i> , 2010, 14, 770-783.	7.0	81
62	Targeted gene deletions in <i>C. elegans</i> using transposon excision. <i>Nature Methods</i> , 2010, 7, 451-453.	9.0	94
63	Syntaxin N-terminal peptide motif is an initiation factor for the assembly of the SNARE–Sec1/Munc18 membrane fusion complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 22399-22406.	3.3	114
64	Two Cyclin-Dependent Kinase Pathways Are Essential for Polarized Trafficking of Presynaptic Components. <i>Cell</i> , 2010, 141, 846-858.	13.5	144
65	Differential requirements for clathrin in receptor-mediated endocytosis and maintenance of synaptic vesicle pools. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1139-1144.	3.3	75
66	Graded synaptic transmission at the <i>Caenorhabditis elegans</i> neuromuscular junction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 10823-10828.	3.3	134
67	Axon Regeneration Requires a Conserved MAP Kinase Pathway. <i>Science</i> , 2009, 323, 802-806.	6.0	387
68	A Neuronal Acetylcholine Receptor Regulates the Balance of Muscle Excitation and Inhibition in <i>Caenorhabditis elegans</i> . <i>PLoS Biology</i> , 2009, 7, e1000265.	2.6	111
69	Calcium: an insignificant thing. <i>Nature Neuroscience</i> , 2009, 12, 1213-1214.	7.1	0
70	Single-copy insertion of transgenes in <i>Caenorhabditis elegans</i> . <i>Nature Genetics</i> , 2008, 40, 1375-1383.	9.4	1,057
71	Protons Act as a Transmitter for Muscle Contraction in <i>C. elegans</i> . <i>Cell</i> , 2008, 132, 149-160.	13.5	117
72	<i>C. elegans</i> AP-2 and Retromer Control Wnt Signaling by Regulating MIG-14/Wntless. <i>Developmental Cell</i> , 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. <i>Journal of Cell Biology</i> , 2008, 180, 483-491.	2.3	88
74	Û42 adaptin facilitates but is not essential for synaptic vesicle recycling in <i>Caenorhabditis elegans</i> . <i>Journal of Cell Biology</i> , 2008, 183, 881-892.	2.3	45
75	Gene Conversion and End-Joining-Repair Double-Strand Breaks in the <i>Caenorhabditis elegans</i> Germline. <i>Genetics</i> , 2008, 180, 673-679.	1.2	36
76	Gene Activation Using FLP Recombinase in <i>C. elegans</i> . <i>PLoS Genetics</i> , 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 <i>Caenorhabditis elegans</i> . <i>Journal of Neuroscience</i> , 2007, 27, 6150-6162.	1.7	261
79	Open Syntaxin Docks Synaptic Vesicles. <i>PLoS Biology</i> , 2007, 5, e198.	2.6	164
80	Axons break in animals lacking Û2-spectrin. <i>Journal of Cell Biology</i> , 2007, 176, 269-275.	2.3	207
81	Tricoë™s Rho-specific GEF domain is the missing GÎ± _q effector in <i>C. elegans</i> . <i>Genes and Development</i> , 2007, 21, 2731-2746.	2.7	84
82	Molecular basis of synaptic vesicle cargo recognition by the endocytic sorting adaptor stonin 2. <i>Journal of Cell Biology</i> , 2007, 179, 1497-1510.	2.3	64
83	PKC Defends Crown Against Munc13. <i>Neuron</i> , 2007, 54, 179-180.	3.8	7
84	UNC-46 is required for trafficking of the vesicular GABA transporter. <i>Nature Neuroscience</i> , 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 <i>Caenorhabditis elegans</i> . <i>Traffic</i> , 2007, 8, 543-553.	1.3	11
86	A Calcium Wave Mediated by Gap Junctions Coordinates a Rhythmic Behavior in <i>C. elegans</i> . <i>Current Biology</i> , 2007, 17, 1601-1608.	1.8	61
87	UNC-80 and the NCA Ion Channels Contribute to Endocytosis Defects in Synaptojanin Mutants. <i>Current Biology</i> , 2007, 17, 1595-1600.	1.8	90
88	The Sensory Circuitry for Sexual Attraction in <i>C. elegans</i> Males. <i>Current Biology</i> , 2007, 17, 1847-1857.	1.8	156
89	Residues in the first transmembrane domain of the <i>Caenorhabditis elegans</i> GABAA receptor confer sensitivity to the neurosteroid pregnenolone sulfate. <i>British Journal of Pharmacology</i> , 2006, 148, 162-172.	2.7	18
90	Induction and repair of zinc-finger nuclease-targeted double-strand breaks in <i>Caenorhabditis elegans</i> somatic cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 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 <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8227-8232.	3.3	28
92	The composition of the GABA receptor at the <i>Caenorhabditis elegans</i> neuromuscular junction. <i>British Journal of Pharmacology</i> , 2005, 144, 502-509.	2.7	52
93	Rapid single nucleotide polymorphism mapping in <i>C. elegans</i> . <i>BMC Genomics</i> , 2005, 6, 118.	1.2	314
94	Characterization of Mos1-Mediated Mutagenesis in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2005, 169, 1779-1785.	1.2	44
95	Heterozygous Insertions Alter Crossover Distribution but Allow Crossover Interference in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2005, 171, 1047-1056.	1.2	38
96	GABA. <i>WormBook</i> , 2005, , 1-13.	5.3	69
97	Preservation of Immunoreactivity and Fine Structure of Adult <i>C. elegans</i> Tissues Using High-pressure Freezing. <i>Journal of Histochemistry and Cytochemistry</i> , 2004, 52, 1-12.	1.3	116
98	NEUROSCIENCE: Vesicular Glutamate Transporter--Shooting Blanks. <i>Science</i> , 2004, 304, 1750-1752.	6.0	29
99	Dopamine: should I stay or should I go now?. <i>Nature Neuroscience</i> , 2004, 7, 1019-1021.	7.1	9
100	The GABA nervous system in <i>C. elegans</i> . <i>Trends in Neurosciences</i> , 2004, 27, 407-414.	4.2	148
101	Pharmacological characterization of the homomeric and heteromeric UNC-49 GABA receptors in <i>C. elegans</i> . <i>British Journal of Pharmacology</i> , 2003, 138, 883-893.	2.7	50
102	Defects in synaptic vesicle docking in <i>unc-18</i> mutants. <i>Nature Neuroscience</i> , 2003, 6, 1023-1030.	7.1	244
103	EXP-1 is an excitatory GABA-gated cation channel. <i>Nature Neuroscience</i> , 2003, 6, 1145-1152.	7.1	159
104	Endophilin Is Required for Synaptic Vesicle Endocytosis by Localizing Synaptojanin. <i>Neuron</i> , 2003, 40, 749-762.	3.8	253
105	Controversies in synaptic vesicle exocytosis. <i>Journal of Cell Science</i> , 2003, 116, 3661-3666.	1.2	56
106	Long chain polyunsaturated fatty acids are required for efficient neurotransmission in <i>C. elegans</i> . <i>Journal of Cell Science</i> , 2003, 116, 4965-4975.	1.2	139
107	The art and design of genetic screens: <i>Caenorhabditis elegans</i> . <i>Nature Reviews Genetics</i> , 2002, 3, 356-369.	7.7	385
108	Characterization of a dominant negative <i>C. elegans</i> Twist mutant protein with implications for human Saethre-Chotzen syndrome. <i>Development (Cambridge)</i> , 2002, 129, 2761-2772.	1.2	20

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109	Studies of Synaptic Vesicle Endocytosis in the Nematode <i>C. elegans</i> . <i>Traffic</i> , 2001, 2, 597-605.	1.3	22
110	A post-docking role for active zone protein Rim. <i>Nature Neuroscience</i> , 2001, 4, 997-1005.	7.1	291
111	An open form of syntaxin bypasses the requirement for UNC-13 in vesicle priming. <i>Nature</i> , 2001, 412, 338-341.	13.7	380
112	Mobilization of a <i>Drosophila</i> transposon in the <i>Caenorhabditis elegans</i> germ line. <i>Nature</i> , 2001, 413, 70-74.	13.7	147
113	Rules of Nonallelic Noncomplementation at the Synapse in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2001, 158, 209-220.	1.2	45
114	Mutations in Synaptojanin Disrupt Synaptic Vesicle Recycling. <i>Journal of Cell Biology</i> , 2000, 150, 589-600.	2.3	247
115	Mutations in β -Spectrin Disrupt Axon Outgrowth and Sarcomere Structure. <i>Journal of Cell Biology</i> , 2000, 149, 931-942.	2.3	112
116	The <i>Caenorhabditis elegans</i> <i>unc-49</i> Locus Encodes Multiple Subunits of a Heteromultimeric GABA Receptor. <i>Journal of Neuroscience</i> , 1999, 19, 5348-5359.	1.7	193
117	UNC-11, a <i>Caenorhabditis elegans</i> AP180 Homologue, Regulates the Size and Protein Composition of Synaptic Vesicles. <i>Molecular Biology of the Cell</i> , 1999, 10, 2343-2360.	0.9	251
118	One GABA and two acetylcholine receptors function at the <i>C. elegans</i> neuromuscular junction. <i>Nature Neuroscience</i> , 1999, 2, 791-797.	7.1	538
119	UNC-13 is required for synaptic vesicle fusion in <i>C. elegans</i> . <i>Nature Neuroscience</i> , 1999, 2, 959-964.	7.1	547
120	The Inositol Trisphosphate Receptor Regulates a 50-Second Behavioral Rhythm in <i>C. elegans</i> . <i>Cell</i> , 1999, 98, 757-767.	13.5	195
121	<i>C. elegans</i> neuroscience: genetics to genome. <i>Trends in Genetics</i> , 1998, 14, 506-512.	2.9	38
122	Wormwholes: A Commentary on K. F. Schaffner's "Genes, Behavior, and Developmental Emergentism". <i>Philosophy of Science</i> , 1998, 65, 259-266.	0.5	26
123	<i>Caenorhabditis elegans</i> <i>rab-3</i> Mutant Synapses Exhibit Impaired Function and Are Partially Depleted of Vesicles. <i>Journal of Neuroscience</i> , 1997, 17, 8061-8073.	1.7	350
124	Identification and characterization of the vesicular GABA transporter. <i>Nature</i> , 1997, 389, 870-876.	13.7	809
125	Defective recycling of synaptic vesicles in synaptotagmin mutants of <i>Caenorhabditis elegans</i> . <i>Nature</i> , 1995, 378, 196-199.	13.7	303
126	Neuromuscular junctions in the nematode <i>C. elegans</i> . <i>Seminars in Developmental Biology</i> , 1995, 6, 207-220.	1.3	37