

Erik M Jorgensen

List of Publications by Year in descending order

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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	Single-copy insertion of transgenes in <i>Caenorhabditis elegans</i> . <i>Nature Genetics</i> , 2008, 40, 1375-1383.	9.4	1,057
2	Identification and characterization of the vesicular GABA transporter. <i>Nature</i> , 1997, 389, 870-876.	13.7	809
3	UNC-13 is required for synaptic vesicle fusion in <i>C. elegans</i> . <i>Nature Neuroscience</i> , 1999, 2, 959-964.	7.1	547
4	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
5	Ultrafast endocytosis at mouse hippocampal synapses. <i>Nature</i> , 2013, 504, 242-247.	13.7	502
6	Improved Mos1-mediated transgenesis in <i>C. elegans</i> . <i>Nature Methods</i> , 2012, 9, 117-118.	9.0	397
7	Axon Regeneration Requires a Conserved MAP Kinase Pathway. <i>Science</i> , 2009, 323, 802-806.	6.0	387
8	The art and design of genetic screens: <i>Caenorhabditis elegans</i> . <i>Nature Reviews Genetics</i> , 2002, 3, 356-369.	7.7	385
9	An open form of syntaxin bypasses the requirement for UNC-13 in vesicle priming. <i>Nature</i> , 2001, 412, 338-341.	13.7	380
10	<i>Caenorhabditis elegans 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
11	Protein localization in electron micrographs using fluorescence nanoscopy. <i>Nature Methods</i> , 2011, 8, 80-84.	9.0	339
12	Random and targeted transgene insertion in <i>Caenorhabditis elegans</i> using a modified Mos1 transposon. <i>Nature Methods</i> , 2014, 11, 529-534.	9.0	321
13	Rapid single nucleotide polymorphism mapping in <i>C. elegans</i> . <i>BMC Genomics</i> , 2005, 6, 118.	1.2	314
14	Defective recycling of synaptic vesicles in synaptotagmin mutants of <i>Caenorhabditis elegans</i> . <i>Nature</i> , 1995, 378, 196-199.	13.7	303
15	A post-docking role for active zone protein Rim. <i>Nature Neuroscience</i> , 2001, 4, 997-1005.	7.1	291
16	Clathrin regenerates synaptic vesicles from endosomes. <i>Nature</i> , 2014, 515, 228-233.	13.7	272
17	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
18	Endophilin Is Required for Synaptic Vesicle Endocytosis by Localizing Synaptojanin. <i>Neuron</i> , 2003, 40, 749-762.	3.8	253

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19	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
20	Mutations in Synaptojanin Disrupt Synaptic Vesicle Recycling. <i>Journal of Cell Biology</i> , 2000, 150, 589-600.	2.3	247
21	Defects in synaptic vesicle docking in <i>unc-18</i> mutants. <i>Nature Neuroscience</i> , 2003, 6, 1023-1030.	7.1	244
22	Glycolytic Enzymes Localize to Synapses under Energy Stress to Support Synaptic Function. <i>Neuron</i> , 2016, 90, 278-291.	3.8	222
23	Ultrafast endocytosis at <i>Caenorhabditis elegans</i> neuromuscular junctions. <i>ELife</i> , 2013, 2, e00723.	2.8	209
24	Axons break in animals lacking β -spectrin. <i>Journal of Cell Biology</i> , 2007, 176, 269-275.	2.3	207
25	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
26	The <i>Caenorhabditis elegans unc-49</i> Locus Encodes Multiple Subunits of a Heteromultimeric GABA Receptor. <i>Journal of Neuroscience</i> , 1999, 19, 5348-5359.	1.7	193
27	<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
28	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
29	Open Syntaxin Docks Synaptic Vesicles. <i>PLoS Biology</i> , 2007, 5, e198.	2.6	164
30	EXP-1 is an excitatory GABA-gated cation channel. <i>Nature Neuroscience</i> , 2003, 6, 1145-1152.	7.1	159
31	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
32	The Sensory Circuitry for Sexual Attraction in <i>C. elegans</i> Males. <i>Current Biology</i> , 2007, 17, 1847-1857.	1.8	156
33	UNC119 is required for G protein trafficking in sensory neurons. <i>Nature Neuroscience</i> , 2011, 14, 874-880.	7.1	154
34	The GABA nervous system in <i>C. elegans</i> . <i>Trends in Neurosciences</i> , 2004, 27, 407-414.	4.2	148
35	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
36	Two Cyclin-Dependent Kinase Pathways Are Essential for Polarized Trafficking of Presynaptic Components. <i>Cell</i> , 2010, 141, 846-858.	13.5	144

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37	Complexin Maintains Vesicles in the Primed State in <i>C.Âelegans</i> . <i>Current Biology</i> , 2011, 21, 106-113.	1.8	141
38	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
39	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
40	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
41	Gene Activation Using FLP Recombinase in <i>C. elegans</i> . <i>PLoS Genetics</i> , 2008, 4, e1000028.	1.5	120
42	Protons Act as a Transmitter for MuscleÂContraction in <i>C. elegans</i> . <i>Cell</i> , 2008, 132, 149-160.	13.5	117
43	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
44	Syntaxin N-terminal peptide motif is an initiation factor for the assembly of the SNAREâ€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
45	Mutations in Î²-Spectrin Disrupt Axon Outgrowth and Sarcomere Structure. <i>Journal of Cell Biology</i> , 2000, 149, 931-942.	2.3	112
46	Visualizing presynaptic function. <i>Nature Neuroscience</i> , 2014, 17, 10-16.	7.1	112
47	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
48	Targeted gene deletions in <i>C. elegans</i> using transposon excision. <i>Nature Methods</i> , 2010, 7, 451-453.	9.0	94
49	An Abundant Class of Non-coding DNA Can Prevent Stochastic Gene Silencing in the <i>C.Âelegans</i> Germline. <i>Cell</i> , 2016, 166, 343-357.	13.5	92
50	Synaptic vesicles transiently dock to refill release sites. <i>Nature Neuroscience</i> , 2020, 23, 1329-1338.	7.1	92
51	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
52	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
53	Axon Regeneration Genes Identified by RNAi Screening in <i>C. elegans</i> . <i>Journal of Neuroscience</i> , 2014, 34, 629-645.	1.7	87
54	Axons Degenerate in the Absence of Mitochondria in <i>C.Âelegans</i> . <i>Current Biology</i> , 2014, 24, 760-765.	1.8	86

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55	Synaptojanin and Endophilin Mediate Neck Formation during Ultrafast Endocytosis. <i>Neuron</i> , 2018, 98, 1184-1197.e6.	3.8	85
56	TRIO's Rho-specific GEF domain is the missing GTP effector in <i>C. elegans</i> . <i>Genes and Development</i> , 2007, 21, 2731-2746.	2.7	84
57	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
58	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
59	The membrane-associated proteins FCHO and SGIP are allosteric activators of the AP2 clathrin adaptor complex. <i>ELife</i> , 2014, 3, .	2.8	75
60	Exciting Cell Membranes with a Blustering Heat Shock. <i>Biophysical Journal</i> , 2014, 106, 1570-1577.	0.2	69
61	Two Rab2 Interactors Regulate Dense-Core Vesicle Maturation. <i>Neuron</i> , 2014, 82, 167-180.	3.8	69
62	GABA. <i>WormBook</i> , 2005, , 1-13.	5.3	69
63	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
64	Synapse Location during Growth Depends on Glia Location. <i>Cell</i> , 2013, 154, 337-350.	13.5	68
65	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
66	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
67	AP2 hemicomplexes contribute independently to synaptic vesicle endocytosis. <i>ELife</i> , 2013, 2, e00190.	2.8	63
68	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
69	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
70	Î³-Neurexin and Frizzled Mediate Parallel Synapse Assembly Pathways Antagonized by Receptor Endocytosis. <i>Neuron</i> , 2018, 100, 150-166.e4.	3.8	57
71	Controversies in synaptic vesicle exocytosis. <i>Journal of Cell Science</i> , 2003, 116, 3661-3666.	1.2	56
72	Sensation in a Single Neuron Pair Represses Male Behavior in Hermaphrodites. <i>Neuron</i> , 2012, 75, 593-600.	3.8	55

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73	Two Clathrin Adaptor Protein Complexes Instruct Axon-Dendrite Polarity. <i>Neuron</i> , 2016, 90, 564-580.	3.8	55
74	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
75	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
76	UNC-46 is required for trafficking of the vesicular GABA transporter. <i>Nature Neuroscience</i> , 2007, 10, 846-853.	7.1	48
77	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
78	β42 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
79	Rules of Nonallelic Noncomplementation at the Synapse in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2001, 158, 209-220.	1.2	45
80	Characterization of Mos1-Mediated Mutagenesis in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2005, 169, 1779-1785.	1.2	44
81	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
82	<i>C. elegans</i> neuroscience: genetics to genome. <i>Trends in Genetics</i> , 1998, 14, 506-512.	2.9	38
83	Heterozygous Insertions Alter Crossover Distribution but Allow Crossover Interference in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2005, 171, 1047-1056.	1.2	38
84	Plasma membrane tension regulates eisosome structure and function. <i>Molecular Biology of the Cell</i> , 2020, 31, 287-303.	0.9	38
85	Neuromuscular junctions in the nematode <i>C. elegans</i> . <i>Seminars in Developmental Biology</i> , 1995, 6, 207-220.	1.3	37
86	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
87	NALCN channelopathies. <i>Neurology</i> , 2016, 87, 1131-1139.	1.5	36
88	NEUROSCIENCE: Vesicular Glutamate Transporter—Shooting Blanks. <i>Science</i> , 2004, 304, 1750-1752.	6.0	29
89	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
90	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

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91	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
92	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
93	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
94	Semi-Automated Neuron Boundary Detection and Nonbranching Process Segmentation in Electron Microscopy Images. <i>Neuroinformatics</i> , 2013, 11, 5-29.	1.5	24
95	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
96	Animal Evolution: Looking for the First Nervous System. <i>Current Biology</i> , 2014, 24, R655-R658.	1.8	23
97	Studies of Synaptic Vesicle Endocytosis in the Nematode <i>C. elegans</i> . <i>Traffic</i> , 2001, 2, 597-605.	1.3	22
98	Visualizing Proteins in Electron Micrographs at Nanometer Resolution. <i>Methods in Cell Biology</i> , 2012, 111, 283-306.	0.5	22
99	SynapsEM: Computer-Assisted Synapse Morphometry. <i>Frontiers in Synaptic Neuroscience</i> , 2020, 12, 584549.	1.3	20
100	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
101	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
102	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
103	Unc13 Aligns SNAREs and Superprimes Synaptic Vesicles. <i>Neuron</i> , 2017, 95, 473-475.	3.8	19
104	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
105	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
106	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
107	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
108	Asymmetric packaging of polymerases within vesicular stomatitis virus. <i>Biochemical and Biophysical Research Communications</i> , 2013, 440, 271-276.	1.0	16

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109	AIP limits neurotransmitter release by inhibiting calcium bursts from the ryanodine receptor. Nature Communications, 2017, 8, 1380.	5.8	16
110	Casein Kinase 1 γ Stabilizes Mature Axons by Inhibiting Transcription Termination of Ankyrin. Developmental Cell, 2020, 52, 88-103.e18.	3.1	15
111	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
112	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
113	Brain Slice Staining and Preparation for Three-Dimensional Super-Resolution Microscopy. Methods in Molecular Biology, 2017, 1663, 153-162.	0.4	10
114	Dopamine: should I stay or should I go now?. Nature Neuroscience, 2004, 7, 1019-1021.	7.1	9
115	Scan-less machine-learning-enabled incoherent microscopy for minimally-invasive deep-brain imaging. Optics Express, 2022, 30, 1546.	1.7	8
116	PKC Defends Crown Against Munc13. Neuron, 2007, 54, 179-180.	3.8	7
117	Improved localization accuracy in stochastic super-resolution fluorescence microscopy by K-factor image deshadowing. Biomedical Optics Express, 2014, 5, 244.	1.5	7
118	Muscle memory. Journal of Physiology, 2011, 589, 775-776.	1.3	4
119	Precisely Localizing Wavelength Sensitive Point-Spread Functions Engineered With a Silicon Oxide Phase Plate. Microscopy and Microanalysis, 2018, 24, 1364-1365.	0.2	4
120	Roles of SNARE Proteins in Synaptic Vesicle Fusion. , 2008, , 35-59.		4
121	Two views on light sheets. Nature Biotechnology, 2013, 31, 992-993.	9.4	2
122	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
123	Interspecies complementation identifies a pathway to assemble SNAREs. IScience, 2022, 25, 104506.	1.9	2
124	The mapping locus is encoded by a gain-of-function mutation in .. MicroPublication Biology, 2022, 2022, .	0.1	1
125	Calcium: an insignificant thing. Nature Neuroscience, 2009, 12, 1213-1214.	7.1	0
126	Image processing for super-resolution localization in fluorescence microscopy. , 2013, , .		0