Richard D Fetter

List of Publications by Year
in descending order

41 papers	5,631 citations	185998 28 h-index	253896 43 g-index
60 all docs	60 docs citations	60 times ranked	5043 citing authors

#	Article	IF	Citations
1	A Complete Electron Microscopy Volume of the Brain of Adult Drosophila melanogaster. Cell, 2018, 174, 730-743.e22.	13.5	731
2	A visual motion detection circuit suggested by Drosophila connectomics. Nature, 2013, 500, 175-181.	13.7	631
3	The complete connectome of a learning and memory centre in an insect brain. Nature, 2017, 548, 175-182.	13.7	424
4	A multilevel multimodal circuit enhances action selection in Drosophila. Nature, 2015, 520, 633-639.	13.7	410
5	Short-Range and Long-Range Guidance by Slit and Its Robo Receptors. Cell, 2000, 103, 1019-1032.	13.5	282
6	Synaptic Specificity Is Generated by the Synaptic Guidepost Protein SYG-2 and Its Receptor, SYG-1. Cell, 2004, 116, 869-881.	13.5	277
7	Elastic volume reconstruction from series of ultra-thin microscopy sections. Nature Methods, 2012, 9, 717-720.	9.0	265
8	Quantitative neuroanatomy for connectomics in Drosophila. ELife, 2016, 5, .	2.8	256
9	Dynactin Is Necessary for Synapse Stabilization. Neuron, 2002, 34, 729-741.	3.8	227
10	Presynaptic Spectrin Is Essential for Synapse Stabilization. Current Biology, 2005, 15, 918-928.	1.8	151
11	A circuit mechanism for the propagation of waves of muscle contraction in Drosophila. ELife, 2016, 5, .	2.8	138
12	Structured Dendritic Inhibition Supports Branch-Selective Integration in CA1 Pyramidal Cells. Neuron, 2016, 89, 1016-1030.	3.8	130
13	Ultrastructurally smooth thick partitioning and volume stitching for large-scale connectomics. Nature Methods, 2015, 12, 319-322.	9.0	119
14	Microtubule Organization Determines Axonal Transport Dynamics. Neuron, 2016, 92, 449-460.	3.8	116
15	Synaptic transmission parallels neuromodulation in a central food-intake circuit. ELife, 2016, 5, .	2.8	111
16	Even-Skipped+ Interneurons Are Core Components of a Sensorimotor Circuit that Maintains Left-Right Symmetric Muscle Contraction Amplitude. Neuron, 2015, 88, 314-329.	3.8	110
17	Recurrent architecture for adaptive regulation of learning in the insect brain. Nature Neuroscience, 2020, 23, 544-555.	7.1	108
18	Single excitatory axons form clustered synapses onto CA1 pyramidal cell dendrites. Nature Neuroscience, 2018, 21, 353-363.	7.1	103

#	Article	IF	Citations
19	Retrograde semaphorinâ€“plexin signalling drives homeostatic synaptic plasticity. Nature, 2017, 550, 109-113.	13.7	91
20	Assembly of synaptic active zones requires phase separation of scaffold molecules. Nature, 2020, 588, 454-458.	13.7	91
21	Conserved neural circuit structure across Drosophila larval development revealed by comparative connectomics. ELife, 2017, 6, .	2.8	87
22	Selective Inhibition Mediates the Sequential Recruitment of Motor Pools. Neuron, 2016, 91, 615-628.	3.8	78
23	A genetically specified connectomics approach applied to long-range feeding regulatory circuits. Nature Neuroscience, 2014, 17, 1830-1839.	7.1	74
24	MDN brain descending neurons coordinately activate backward and inhibit forward locomotion. ELife, 2018, 7, .	2.8	68
25	Organization of the Drosophila larval visual circuit. ELife, 2017, 6, .	2.8	59
26	Convergence of monosynaptic and polysynaptic sensory paths onto common motor outputs in a Drosophila feeding connectome. ELife, 2018, 7, .	2.8	54
27	Presynaptic Homeostasis Opposes Disease Progression in Mouse Models of ALS-Like Degeneration: Evidence for Homeostatic Neuroprotection. Neuron, 2020, 107, 95-111.e6.	3.8	43
28	Regulation of forward and backward locomotion through intersegmental feedback circuits in Drosophila larvae. Nature Communications, 2019, 10, 2654.	5.8	42
29	MCTP is an ER-resident calcium sensor that stabilizes synaptic transmission and homeostatic plasticity. ELife, 2017, 6, .	2.8	42
30	Growth cone-localized microtubule organizing center establishes microtubule orientation in dendrites. ELife, 2020, 9, .	2.8	41
31	Comparative Connectomics Reveals How Partner Identity, Location, and Activity Specify Synaptic Connectivity in Drosophila. Neuron, 2021, 109, 105-122.e7.	3.8	36
32	SVIP is a molecular determinant of lysosomal dynamic stability, neurodegeneration and lifespan. Nature Communications, 2021, 12, 513.	5.8	30
33	Circuits for integrating learned and innate valences in the insect brain. ELife, 2021, 10, .	2.8	29
34	Presynaptic target of Ca 2+ action on neuropeptide and acetylcholine release in Aplysia californica. Journal of Physiology, 2001, 535, 647-662.	1.3	27
35	Molecular Interface of Neuronal Innate Immunity, Synaptic Vesicle Stabilization, and Presynaptic Homeostatic Plasticity. Neuron, 2018, 100, 1163-1179.e4.	3.8	27
36	Unveiling the sensory and interneuronal pathways of the neuroendocrine connectome in Drosophila. ELife, 2021, 10, .	2.8	25

#	Article	IF	Citations
37	A postsynaptic PI3K-cII dependent signaling controller for presynaptic homeostatic plasticity. ELife, 2018, 7, .	2.8	21
38	The cAMP effector PKA mediates Moody GPCR signaling in Drosophila bloodâ€“brain barrier formation and maturation. ELife, 2021, 10, .	2.8	11
39	Regulation of coordinated muscular relaxation in Drosophila larvae by a pattern-regulating intersegmental circuit. Nature Communications, 2021, 12, 2943.	5.8	10
40	Inherited apicobasal polarity defines the key features of axon-dendrite polarity in a sensory neuron. Current Biology, 2021, 31, 3768-3783.e3.	1.8	7
41	Elimination of nurse cell nuclei that shuttle into oocytes during oogenesis. Journal of Cell Biology, 2021, 220, .	2.3	4