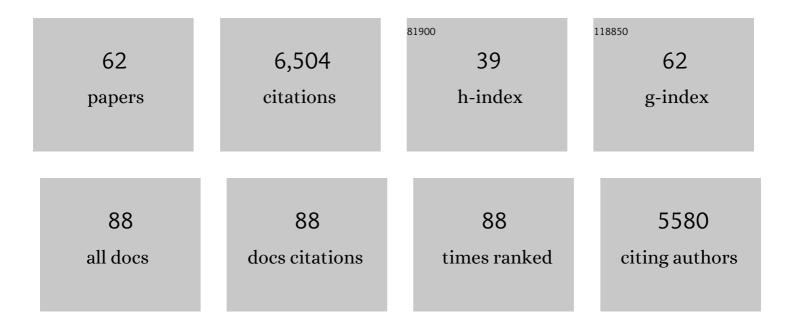
Graeme W Davis

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	HOMEOSTATIC CONTROL OF NEURAL ACTIVITY: From Phenomenology to Molecular Design. Annual Review of Neuroscience, 2006, 29, 307-323.	10.7	482
2	Mechanisms Underlying the Rapid Induction and Sustained Expression of Synaptic Homeostasis. Neuron, 2006, 52, 663-677.	8.1	338
3	Maintaining the Stability of Neural Function: A Homeostatic Hypothesis. Annual Review of Physiology, 2001, 63, 847-869.	13.1	268
4	RIM-Binding Protein, a Central Part of the Active Zone, Is Essential for Neurotransmitter Release. Science, 2011, 334, 1565-1569.	12.6	257
5	Unrestricted Synaptic Growth in spinster—a Late Endosomal Protein Implicated in TGF-β-Mediated Synaptic Growth Regulation. Neuron, 2002, 36, 403-416.	8.1	244
6	Dynactin Is Necessary for Synapse Stabilization. Neuron, 2002, 34, 729-741.	8.1	227
7	Homeostatic Signaling and the Stabilization of Neural Function. Neuron, 2013, 80, 718-728.	8.1	224
8	Synapse-specific control of synaptic efficacy at the terminals of a single neuron. Nature, 1998, 392, 82-86.	27.8	214
9	Homeostatic Control of Presynaptic Release Is Triggered by Postsynaptic Membrane Depolarization. Neuron, 2001, 30, 737-749.	8.1	214
10	Homeostatic Control of Presynaptic Neurotransmitter Release. Annual Review of Physiology, 2015, 77, 251-270.	13.1	212
11	Dap160/Intersectin Scaffolds the Periactive Zone to Achieve High-Fidelity Endocytosis and Normal Synaptic Growth. Neuron, 2004, 43, 207-219.	8.1	203
12	Postsynaptic PKA Controls Quantal Size and Reveals a Retrograde Signal that Regulates Presynaptic Transmitter Release in Drosophila. Neuron, 1998, 20, 305-315.	8.1	196
13	The Schizophrenia Susceptibility Gene <i>dysbindin</i> Controls Synaptic Homeostasis. Science, 2009, 326, 1127-1130.	12.6	195
14	RIM Controls Homeostatic Plasticity through Modulation of the Readily-Releasable Vesicle Pool. Journal of Neuroscience, 2012, 32, 16574-16585.	3.6	180
15	Genetic Analysis of the Mechanisms Controlling Target Selection: Target-Derived Fasciclin II Regulates the Pattern of Synapse Formation. Neuron, 1997, 19, 561-573.	8.1	167
16	A Presynaptic Giant Ankyrin Stabilizes the NMJ through Regulation of Presynaptic Microtubules and Transsynaptic Cell Adhesion. Neuron, 2008, 58, 195-209.	8.1	164
17	A Presynaptic Homeostatic Signaling System Composed of the Eph Receptor, Ephexin, Cdc42, and CaV2.1 Calcium Channels. Neuron, 2009, 61, 556-569.	8.1	158
18	Presynaptic Spectrin Is Essential for Synapse Stabilization. Current Biology, 2005, 15, 918-928.	3.9	151

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#	Article	IF	CITATIONS
19	Clathrin Dependence of Synaptic-Vesicle Formation at the Drosophila Neuromuscular Junction. Current Biology, 2008, 18, 401-409.	3.9	124
20	Genetic analysis of synaptic development and plasticity: homeostatic regulation of synaptic efficacy. Current Opinion in Neurobiology, 1998, 8, 149-156.	4.2	120
21	The BMP Ligand Gbb Gates the Expression of Synaptic Homeostasis Independent of Synaptic Growth Control. Neuron, 2007, 56, 109-123.	8.1	115
22	The Psychiatric Cell Map Initiative: A Convergent Systems Biological Approach to Illuminating Key Molecular Pathways in Neuropsychiatric Disorders. Cell, 2018, 174, 505-520.	28.9	108
23	Transsynaptic Control of Presynaptic Ca2+ Influx Achieves Homeostatic Potentiation of Neurotransmitter Release. Current Biology, 2012, 22, 1102-1108.	3.9	107
24	Endostatin Is a Trans-Synaptic Signal for Homeostatic Synaptic Plasticity. Neuron, 2014, 83, 616-629.	8.1	98
25	Hts/Adducin Controls Synaptic Elaboration and Elimination. Neuron, 2011, 69, 1114-1131.	8.1	97
26	Rab3-GAP Controls the Progression of Synaptic Homeostasis at a Late Stage of Vesicle Release. Neuron, 2011, 69, 749-762.	8.1	96
27	A Presynaptic ENaC Channel Drives Homeostatic Plasticity. Neuron, 2013, 79, 1183-1196.	8.1	92
28	Retrograde semaphorin–plexin signalling drives homeostatic synaptic plasticity. Nature, 2017, 550, 109-113.	27.8	91
29	A Hierarchy of Cell Intrinsic and Target-Derived Homeostatic Signaling. Neuron, 2010, 66, 220-234.	8.1	88
30	RIM-Binding Protein Links Synaptic Homeostasis to the Stabilization and Replenishment of High Release Probability Vesicles. Neuron, 2015, 85, 1056-1069.	8.1	83
31	Discrete Residues in the C2B Domain of Synaptotagmin I Independently Specify Endocytic Rate and Synaptic Vesicle Size. Neuron, 2006, 50, 49-62.	8.1	81
32	Developmental neuroscience. Current Opinion in Neurobiology, 2011, 21, 1-4.	4.2	79
33	VCP-dependent muscle degeneration is linked to defects in a dynamic tubular lysosomal network in vivo. ELife, 2015, 4, .	6.0	73
34	Snapin is Critical for Presynaptic Homeostatic Plasticity. Journal of Neuroscience, 2012, 32, 8716-8724.	3.6	58
35	Molecular mechanisms that enhance synapse stability despite persistent disruption of the spectrin/ankyrin/microtubule cytoskeleton. Journal of Cell Biology, 2009, 187, 101-117.	5.2	55
36	Homeostatic synaptic depression is achieved through a regulated decrease in presynaptic calcium channel abundance. ELife, 2015, 4, .	6.0	54

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37	Glial-Derived Prodegenerative Signaling in the Drosophila Neuromuscular System. Neuron, 2011, 72, 760-775.	8.1	53
38	Stathmin is Required for Stability of the <i>Drosophila</i> Neuromuscular Junction. Journal of Neuroscience, 2011, 31, 15026-15034.	3.6	52
39	Engineering a light-activated caspase-3 for precise ablation of neurons in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8174-E8183.	7.1	50
40	α2δ-3 Is Required for Rapid Transsynaptic Homeostatic Signaling. Cell Reports, 2016, 16, 2875-2888.	6.4	49
41	The Innate Immune Receptor PGRP-LC Controls Presynaptic Homeostatic Plasticity. Neuron, 2015, 88, 1157-1164.	8.1	48
42	Presynaptic Homeostasis Opposes Disease Progression in Mouse Models of ALS-Like Degeneration: Evidence for Homeostatic Neuroprotection. Neuron, 2020, 107, 95-111.e6.	8.1	43
43	Synaptic Homeostasis Is Consolidated by the Cell Fate Gene gooseberry, a Drosophila pax3/7 Homolog. Journal of Neuroscience, 2010, 30, 8071-8082.	3.6	42
44	Krüppel Mediates the Selective Rebalancing of Ion Channel Expression. Neuron, 2014, 82, 537-544.	8.1	42
45	MCTP is an ER-resident calcium sensor that stabilizes synaptic transmission and homeostatic plasticity. ELife, 2017, 6, .	6.0	42
46	Retrograde signaling and the development of transmitter release properties in the invertebrate nervous system. Journal of Neurobiology, 1994, 25, 740-756.	3.6	35
47	S6 kinase localizes to the presynaptic active zone and functions with PDK1 to control synapse development. Journal of Cell Biology, 2011, 194, 921-935.	5.2	35
48	Molecular mechanisms that stabilize short term synaptic plasticity during presynaptic homeostatic plasticity. ELife, 2018, 7, .	6.0	32
49	Archaerhodopsin Voltage Imaging: Synaptic Calcium and BK Channels Stabilize Action Potential Repolarization at the <i>Drosophila</i> Neuromuscular Junction. Journal of Neuroscience, 2014, 34, 14517-14525.	3.6	30
50	SVIP is a molecular determinant of lysosomal dynamic stability, neurodegeneration and lifespan. Nature Communications, 2021, 12, 513.	12.8	30
51	Molecular Interface of Neuronal Innate Immunity, Synaptic Vesicle Stabilization, and Presynaptic Homeostatic Plasticity. Neuron, 2018, 100, 1163-1179.e4.	8.1	27
52	Composition and Control of a Deg/ENaC Channel during Presynaptic Homeostatic Plasticity. Cell Reports, 2017, 20, 1855-1866.	6.4	26
53	Target-wide Induction and Synapse Type-Specific Robustness of Presynaptic Homeostasis. Current Biology, 2019, 29, 3863-3873.e2.	3.9	26
54	Evolution of Mechanisms that Control Mating in Drosophila Males. Cell Reports, 2019, 27, 2527-2536.e4.	6.4	23

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55	Dual separable feedback systems govern firing rate homeostasis. ELife, 2019, 8, .	6.0	23
56	A postsynaptic PI3K-cII dependent signaling controller for presynaptic homeostatic plasticity. ELife, 2018, 7, .	6.0	21
57	Epigenetic Signaling in Glia Controls Presynaptic Homeostatic Plasticity. Neuron, 2020, 105, 491-505.e3.	8.1	17
58	Homeostatic plasticity fails at the intersection of autism-gene mutations and a novel class of common genetic modifiers. ELife, 2020, 9, .	6.0	14
59	Not Fade Away: Mechanisms of Neuronal ATP Homeostasis. Neuron, 2020, 105, 591-593.	8.1	7
60	Synapse formation revisited. Nature Neuroscience, 2001, 4, 558-560.	14.8	6
61	The Global Challenge in Neuroscience Education and Training: The MBL Perspective. Neuron, 2016, 92, 632-636.	8.1	6
62	Dystrobrevin is required postsynaptically for homeostatic potentiation at the Drosophila NMJ. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 1579-1591.	3.8	3