Beth Stevens

List of Publications by Year
in descending order

76 papers	28,578 citations	44444 50 h-index	81351 76 g-index
109 all docs	109 docs citations	109 times ranked	30628 citing authors

#	Article	IF	Citations
1	The neuronal retromer can regulate both neuronal and microglial phenotypes of Alzheimer's disease. Cell Reports, 2022, 38, 110262.	2.9	17
2	Dissection of artifactual and confounding glial signatures by single-cell sequencing of mouse and human brain. Nature Neuroscience, 2022, 25, 306-316.	7.1	166
3	Overexpression of schizophrenia susceptibility factor human complement C4A promotes excessive synaptic loss and behavioral changes in mice. Nature Neuroscience, 2021, 24, 214-224.	7.1	158
4	A RIPK1-regulated inflammatory microglial state in amyotrophic lateral sclerosis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	36
5	A map of transcriptional heterogeneity and regulatory variation in human microglia. Nature Genetics, 2021, 53, 861-868.	9.4	115
6	GABA-receptive microglia selectively sculpt developing inhibitory circuits. Cell, 2021, 184, 4048-4063.e32.	13.5	142
7	Retinal Ganglion Cell Axon Regeneration Requires Complement and Myeloid Cell Activity within the Optic Nerve. Journal of Neuroscience, 2021, 41, 8508-8531.	1.7	25
8	The complement cascade repurposed in the brain. Nature Reviews Immunology, 2021, 21, 624-625.	10.6	11
9	Ocular Dominance Plasticity in Binocular Primary Visual Cortex Does Not Require C1q. Journal of Neuroscience, 2020, 40, 769-783.	1.7	46
10	Microglia and Astrocytes in Disease: Dynamic Duo or Partners in Crime?. Trends in Immunology, 2020, 41, 820-835.	2.9	146
11	A Complement C3â€“Specific Nanobody for Modulation of the Alternative Cascade Identifies the C-Terminal Domain of C3b as Functional in C5 Convertase Activity. Journal of Immunology, 2020, 205, 2287-2300.	0.4	9
12	An Ultrahigh-Affinity Complement C4b-Specific Nanobody Inhibits In Vivo Assembly of the Classical Pathway Proconvertase. Journal of Immunology, 2020, 205, 1678-1694.	0.4	12
13	Sensory Experience Engages Microglia to Shape Neural Connectivity through a Non-Phagocytic Mechanism. Neuron, 2020, 108, 451-468.e9.	3.8	106
14	A splicing isoform of GPR56 mediates microglial synaptic refinement via phosphatidylserine binding. EMBO Journal, 2020, 39, e104136.	3.5	103
15	The contribution of glial cells to Huntington's disease pathogenesis. Neurobiology of Disease, 2020, 143, 104963.	2.1	56
16	Local externalization of phosphatidylserine mediates developmental synaptic pruning by microglia. EMBO Journal, 2020, 39, e105380.	3.5	217
17	Microglial depletion disrupts normal functional development of adult-born neurons in the olfactory bulb. ELife, 2020, 9, .	2.8	35
18	Neuron-Glia Signaling in Synapse Elimination. Annual Review of Neuroscience, 2019, 42, 107-127.	5.0	224

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19	Nanoscale Surveillance of the Brain by Microglia via cAMP-Regulated Filopodia. Cell Reports, 2019, 27, 2895-2908.e4.	2.9	149
20	Immune Signaling in Neurodegeneration. Immunity, 2019, 50, 955-974.	6.6	217
21	Single-Cell RNA Sequencing of Microglia throughout the Mouse Lifespan and in the Injured Brain Reveals Complex Cell-State Changes. Immunity, 2019, 50, 253-271.e6.	6.6	1,351
22	Roles of microglia in nervous system development, plasticity, and disease. Developmental Neurobiology, 2018, 78, 559-560.	1.5	38
23	Report on the National Eye Instituteâ€™s Audacious Goals Initiative: Creating a Cellular Environment for Neuroregeneration. ENeuro, 2018, 5, ENEURO.0035-18.2018.	0.9	9
24	CD47 Protects Synapses from Excess Microglia-Mediated Pruning during Development. Neuron, 2018, 100, 120-134.e6.	3.8	304
25	Lupus antibodies induce behavioral changes mediated by microglia and blocked by ACE inhibitors. Journal of Experimental Medicine, 2018, 215, 2554-2566.	4.2	117
26	Microglial transglutaminase-2 drives myelination and myelin repair via GPR56/ADGRG1 in oligodendrocyte precursor cells. ELife, 2018, 7, .	2.8	86
27	New tricks for an ancient system: Physiological and pathological roles of complement in the CNS. Molecular Immunology, 2018, 102, 3-13.	1.0	85
28	Pruning hypothesis comes of age. Nature, 2018, 554, 438-439.	13.7	36
29	Microglia and the Brain: Complementary Partners in Development and Disease. Annual Review of Cell and Developmental Biology, 2018, 34, 523-544.	4.0	214
30	A Milieu Molecule for TGF-Î² Required for Microglia Function in the Nervous System. Cell, 2018, 174, 156-171.e16.	13.5	130
31	Neurotoxic reactive astrocytes are induced by activated microglia. Nature, 2017, 541, 481-487.	13.7	4,977
32	Complement C3 deficiency protects against neurodegeneration in aged plaque-rich APP/PS1 mice. Science Translational Medicine, 2017, 9, .	5.8	401
33	Structured Illumination Microscopy for the Investigation of Synaptic Structure and Function. Methods in Molecular Biology, 2017, 1538, 155-167.	0.4	13
34	TREM2: Keeping Microglia Fit during Good Times and Bad. Cell Metabolism, 2017, 26, 590-591.	7.2	8
35	Experience-Dependent Synaptic Plasticity in V1 Occurs without Microglial CX3CR1. Journal of Neuroscience, 2017, 37, 10541-10553.	1.7	45
36	Microglia emerge as central players in brain disease. Nature Medicine, 2017, 23, 1018-1027.	15.2	1,208

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37	Editorial overview: Glial biology. Current Opinion in Neurobiology, 2017, 47, iv-vi.	2.0	1
38	Microglia: The Brain's First Responders. Cerebrum: the Dana Forum on Brain Science, 2017, 2017, .	0.1	20
39	Complement and microglia mediate early synapse loss in Alzheimer mouse models. Science, 2016, 352, 712-716.	6.0	2,237
40	Proteomic Analysis of Unbounded Cellular Compartments: Synaptic Clefts. Cell, 2016, 166, 1295-1307.e21.	13.5	324
41	Microglia: Phagocytosing to Clear, Sculpt, and Eliminate. Developmental Cell, 2016, 38, 126-128.	3.1	80
42	Increasing the neurological-disease toolbox using iPSC-derived microglia. Nature Medicine, 2016, 22, 1206-1207.	15.2	6
43	A complementâ€“microglial axis drives synapse loss during virus-induced memory impairment. Nature, 2016, 534, 538-543.	13.7	534
44	Schizophrenia risk from complex variation of complement component 4. Nature, 2016, 530, 177-183.	13.7	1,915
45	Differences among astrocytes. Science, 2016, 351, 813-813.	6.0	7
46	New insights on the role of microglia in synaptic pruning in health and disease. Current Opinion in Neurobiology, 2016, 36, 128-134.	2.0	431
47	Microglia contribute to circuit defects in Mecp2 null mice independent of microglia-specific loss of Mecp2 expression. ELife, 2016, 5, .	2.8	117
48	Microglia Function in Central Nervous System Development and Plasticity. Cold Spring Harbor Perspectives in Biology, 2015, 7, a020545.	2.3	264
49	Brains, Blood, and Guts: MeCP2 Regulates Microglia, Monocytes, and Peripheral Macrophages. Immunity, 2015, 42, 600-602.	6.6	14
50	Shedding Light on Glioma Growth. Cell, 2015, 161, 704-706.	13.5	6
51	Complement<i>C3</i>-Deficient Mice Fail to Display Age-Related Hippocampal Decline. Journal of Neuroscience, 2015, 35, 13029-13042.	1.7	286
52	New Brain Lymphatic Vessels Drain Old Concepts. EBioMedicine, 2015, 2, 776-777.	2.7	21
53	Do glia drive synaptic and cognitive impairment in disease?. Nature Neuroscience, 2015, 18, 1539-1545.	7.1	344
54	Microglia: Dynamic Mediators of Synapse Development and Plasticity. Trends in Immunology, 2015, 36, 605-613.	2.9	537

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55	The adhesion G protein-coupled receptor GPR56 is a cell-autonomous regulator of oligodendrocyte development. Nature Communications, 2015, 6, 6121.	5.8	116
56	Microglia function during brain development: New insights from animal models. Brain Research, 2015, 1617, 7-17.	1.1	179
57	Astrocytes refine cortical connectivity at dendritic spines. ELife, 2014, 3, .	2.8	139
58	An Engulfment Assay: A Protocol to Assess Interactions Between CNS Phagocytes and Neurons. Journal of Visualized Experiments, 2014, , .	0.2	90
59	S4-02-03: COMPLEMENT IN ALZHEIMER'S DISEASE: LESSONS FROM C3-DEFICIENT MICE. , 2014, 10, P240-P240.		0
60	Developing and Mature Synapses. , 2014, , 223-248.		5
61	The â€œquadâ€partiteâ€• synapse: Microgliaâ€synapse interactions in the developing and mature CNS. Glia, 2013, 61, 24-36.	2.5	458
62	Phagocytic glial cells: sculpting synaptic circuits in the developing nervous system. Current Opinion in Neurobiology, 2013, 23, 1034-1040.	2.0	153
63	O2-07-03: Complement C3-deficiency preserves hippocampal synapses and neurons with aging and improves learning and memory compared to WT mice. , 2013, 9, P328-P328.		0
64	Microglia in Neuronal Circuits. Neural Plasticity, 2013, 2013, 1-3.	1.0	18
65	Microglia Sculpt Postnatal Neural Circuits in an Activity and Complement-Dependent Manner. Neuron, 2012, 74, 691-705.	3.8	3,040
66	The Complement System: An Unexpected Role in Synaptic Pruning During Development and Disease. Annual Review of Neuroscience, 2012, 35, 369-389.	5.0	876
67	The Complement Control-Related Genes CSMD1 and CSMD2 Associate to Schizophrenia. Biological Psychiatry, 2011, 70, 35-42.	0.7	149
68	The Role of Microglia in the Healthy Brain: Figure 1.. Journal of Neuroscience, 2011, 31, 16064-16069.	1.7	800
69	How Many Cell Types Does It Take to Wire a Brain?. Science, 2011, 333, 1391-1392.	6.0	30
70	Molecular clustering identifies complement and endothelin induction as early events in a mouse model of glaucoma. Journal of Clinical Investigation, 2011, 121, 1429-1444.	3.9	388
71	Synapse elimination during development and disease: immune molecules take centre stage. Biochemical Society Transactions, 2010, 38, 476-481.	1.6	113
72	Enhanced synaptic connectivity and epilepsy in C1q knockout mice. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7975-7980.	3.3	332

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73	The Role of the Classical Complement Cascade in Synapse Loss During Development and Glaucoma. Advances in Experimental Medicine and Biology, 2010, 703, 75-93.	0.8	51
74	The complement cascade: Yinâ€"Yang in neuroinflammation â€" neuroâ€protection and â€degeneration. Journal of Neurochemistry, 2008, 107, 1169-1187.	2.1	152
75	Neuron-Astrocyte Signaling in the Development and Plasticity of Neural Circuits. NeuroSignals, 2008, 16, 278-288.	0.5	129
76	The Classical Complement Cascade Mediates CNS Synapse Elimination. Cell, 2007, 131, 1164-1178.	13.5	2,567