Jason D Shepherd

List of Publications by Citations

34 papers	6,730 citations	21 h-index	43 g-index
43 ext. papers	7,744 ext. citations	15.1 avg, IF	5.61 L-index

#	Paper	IF	Citations
34	Triple-transgenic model of Alzheimerꞌs disease with plaques and tangles: intracellular Abeta and synaptic dysfunction. *Neuron*, **2003**, 39, 409-21	13.9	3031
33	The cell biology of synaptic plasticity: AMPA receptor trafficking. *Annual Review of Cell and Developmental Biology*, **2007**, 23, 613-43	12.6	755
32	Arc/Arg3.1 interacts with the endocytic machinery to regulate AMPA receptor trafficking. *Neuron*, **2006**, 52, 445-59	13.9	576
31	Arc/Arg3.1 mediates homeostatic synaptic scaling of AMPA receptors. *Neuron*, **2006**, 52, 475-84	13.9	570
30	Elongation factor 2 and fragile X mental retardation protein control the dynamic translation of Arc/Arg3.1 essential for mGluR-LTD. *Neuron*, **2008**, 59, 70-83	13.9	414
29	New views of Arc, a master regulator of synaptic plasticity. *Nature Neuroscience*, **2011**, 14, 279-84	25.5	340
28	The Neuronal Gene Arc Encodes a Repurposed Retrotransposon Gag Protein that Mediates Intercellular RNA Transfer. *Cell*, **2018**, 172, 275-288.e18	56.2	203
27	Arc/Arg3.1 regulates an endosomal pathway essential for activity-dependent □amyloid generation. *Cell*, **2011**, 147, 615-28	56.2	144
26	Loss of Arc renders the visual cortex impervious to the effects of sensory experience or deprivation. *Nature Neuroscience*, **2010**, 13, 450-7	25.5	126
25	Imaging activity in neurons and glia with a Polr2a-based and cre-dependent GCaMP5G-IRES-tdTomato reporter mouse. *Neuron*, **2014**, 83, 1058-72	13.9	77
24	SRF binding to SRE 6.9 in the Arc promoter is essential for LTD in cultured Purkinje cells. *Nature Neuroscience*, **2010**, 13, 1082-9	25.5	59
23	The role of ionotropic glutamate receptors in childhood neurodevelopmental disorders: autism spectrum disorders and fragile x syndrome. *Current Neuropharmacology*, **2014**, 12, 71-98	7.6	50
22	The Temporal Dynamics of Arc Expression Regulate Cognitive Flexibility. *Neuron*, **2018**, 98, 1124-1132.e7	13.9	40
21	Three-dimensional genome restructuring across timescales of activity-induced neuronal gene expression. *Nature Neuroscience*, **2020**, 23, 707-717	25.5	33
20	Activity-Dependent Arc Expression and Homeostatic Synaptic Plasticity Are Altered in Neurons from a Mouse Model of Angelman Syndrome. *Frontiers in Molecular Neuroscience*, **2017**, 10, 234	6.1	32
19	Memory, plasticity and sleep - A role for calcium permeable AMPA receptors?. *Frontiers in Molecular Neuroscience*, **2012**, 5, 49	6.1	32
18	Arc restores juvenile plasticity in adult mouse visual cortex. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 9182-9187	11.5	30

17	The microbiota protects from viral-induced neurologic damage through microglia-intrinsic TLR signaling. *ELife*, **2019**, 8,	8.9	28
16	Deep-brain imaging via epi-fluorescence Computational Cannula Microscopy. *Scientific Reports*, **2017**, 7, 44791	4.9	24
15	Structures of virus-like capsids formed by the Drosophila neuronal Arc proteins. *Nature Neuroscience*, **2020**, 23, 172-175	25.5	22
14	Interneuron Simplification and Loss of Structural Plasticity As Markers of Aging-Related Functional Decline. *Journal of Neuroscience*, **2018**, 38, 8421-8432	6.6	16
13	Arc - An endogenous neuronal retrovirus?. *Seminars in Cell and Developmental Biology*, **2018**, 77, 73-78	7.5	13
12	Experience-Dependent Development and Maintenance of Binocular Neurons in the Mouse Visual Cortex. *Cell Reports*, **2020**, 30, 1982-1994.e4	10.6	12
11	Arc: building a bridge from viruses to memory. *Biochemical Journal*, **2015**, 469, e1-3	3.8	7
10	Intercellular Communication in the Nervous System Goes Viral. *Trends in Neurosciences*, **2021**, 44, 248-259	13.3	6
9	The Immediate Early Gene Arc Is Not Required for Hippocampal Long-Term Potentiation. *Journal of Neuroscience*, **2021**, 41, 4202-4211	6.6	5
8	Computational cannula microscopy of neurons using neural networks. *Optics Letters*, **2020**, 45, 2111-2114	3	4
7	3D computational cannula fluorescence microscopy enabled by artificial neural networks. *Optics Express*, **2020**, 28, 32342-32348	3.3	3
6	Author response: The microbiota protects from viral-induced neurologic damage through microglia-intrinsic TLR signaling **2019**,		3
5	Expanding the AtLAS of non-coding RNA functions in the brain. *Cell Research*, **2020**, 30, 283-284	24.7	2
4	Scan-less machine-learning-enabled incoherent microscopy for minimally-invasive deep-brain imaging.. *Optics Express*, **2022**, 30, 1546-1554	3.3	2
3	Intercellular Arc Signaling Regulates Vasodilation. *Journal of Neuroscience*, **2021**, 41, 7712-7726	6.6	2
2	Deconstructing the synapse. *Nature Neuroscience*, **2018**, 21, 1294-1295	25.5	2
1	The immediate early gene Arc is not required for hippocampal long-term potentiation		1