

Jason D Shepherd

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Scan-less machine-learning-enabled incoherent microscopy for minimally-invasive deep-brain imaging.. <i>Optics Express</i> , 2022 , 30, 1546-1554	3.3	2
33	The Immediate Early Gene Arc Is Not Required for Hippocampal Long-Term Potentiation. <i>Journal of Neuroscience</i> , 2021 , 41, 4202-4211	6.6	5
32	Intercellular Communication in the Nervous System Goes Viral. <i>Trends in Neurosciences</i> , 2021 , 44, 248-259.3	3.3	6
31	Intercellular Arc Signaling Regulates Vasodilation. <i>Journal of Neuroscience</i> , 2021 , 41, 7712-7726	6.6	2
30	Expanding the AtLAS of non-coding RNA functions in the brain. <i>Cell Research</i> , 2020 , 30, 283-284	24.7	2
29	3D computational cannula fluorescence microscopy enabled by artificial neural networks. <i>Optics Express</i> , 2020 , 28, 32342-32348	3.3	3
28	Computational cannula microscopy of neurons using neural networks. <i>Optics Letters</i> , 2020 , 45, 2111-2114	3.4	4
27	Experience-Dependent Development and Maintenance of Binocular Neurons in the Mouse Visual Cortex. <i>Cell Reports</i> , 2020 , 30, 1982-1994.e4	10.6	12
26	Three-dimensional genome restructuring across timescales of activity-induced neuronal gene expression. <i>Nature Neuroscience</i> , 2020 , 23, 707-717	25.5	33
25	Structures of virus-like capsids formed by the Drosophila neuronal Arc proteins. <i>Nature Neuroscience</i> , 2020 , 23, 172-175	25.5	22
24	The microbiota protects from viral-induced neurologic damage through microglia-intrinsic TLR signaling. <i>ELife</i> , 2019 , 8,	8.9	28
23	Author response: The microbiota protects from viral-induced neurologic damage through microglia-intrinsic TLR signaling 2019 ,		3
22	The Neuronal Gene Arc Encodes a Repurposed Retrotransposon Gag Protein that Mediates Intercellular RNA Transfer. <i>Cell</i> , 2018 , 172, 275-288.e18	56.2	203
21	Arc - An endogenous neuronal retrovirus?. <i>Seminars in Cell and Developmental Biology</i> , 2018 , 77, 73-78	7.5	13
20	Interneuron Simplification and Loss of Structural Plasticity As Markers of Aging-Related Functional Decline. <i>Journal of Neuroscience</i> , 2018 , 38, 8421-8432	6.6	16
19	Deconstructing the synapse. <i>Nature Neuroscience</i> , 2018 , 21, 1294-1295	25.5	2
18	The Temporal Dynamics of Arc Expression Regulate Cognitive Flexibility. <i>Neuron</i> , 2018 , 98, 1124-1132.e7	13.9	40

17	Deep-brain imaging via epi-fluorescence Computational Cannula Microscopy. <i>Scientific Reports</i> , 2017 , 7, 44791	4.9	24
16	Arc restores juvenile plasticity in adult mouse visual cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 9182-9187	11.5	30
15	Activity-Dependent Arc Expression and Homeostatic Synaptic Plasticity Are Altered in Neurons from a Mouse Model of Angelman Syndrome. <i>Frontiers in Molecular Neuroscience</i> , 2017 , 10, 234	6.1	32
14	Arc: building a bridge from viruses to memory. <i>Biochemical Journal</i> , 2015 , 469, e1-3	3.8	7
13	Imaging activity in neurons and glia with a Polr2a-based and cre-dependent GCaMP5G-IRES-tdTomato reporter mouse. <i>Neuron</i> , 2014 , 83, 1058-72	13.9	77
12	The role of ionotropic glutamate receptors in childhood neurodevelopmental disorders: autism spectrum disorders and fragile x syndrome. <i>Current Neuropharmacology</i> , 2014 , 12, 71-98	7.6	50
11	Memory, plasticity and sleep - A role for calcium permeable AMPA receptors?. <i>Frontiers in Molecular Neuroscience</i> , 2012 , 5, 49	6.1	32
10	Arc/Arg3.1 regulates an endosomal pathway essential for activity-dependent amyloid generation. <i>Cell</i> , 2011 , 147, 615-28	56.2	144
9	New views of Arc, a master regulator of synaptic plasticity. <i>Nature Neuroscience</i> , 2011 , 14, 279-84	25.5	340
8	Loss of Arc renders the visual cortex impervious to the effects of sensory experience or deprivation. <i>Nature Neuroscience</i> , 2010 , 13, 450-7	25.5	126
7	SRF binding to SRE 6.9 in the Arc promoter is essential for LTD in cultured Purkinje cells. <i>Nature Neuroscience</i> , 2010 , 13, 1082-9	25.5	59
6	Elongation factor 2 and fragile X mental retardation protein control the dynamic translation of Arc/Arg3.1 essential for mGluR-LTD. <i>Neuron</i> , 2008 , 59, 70-83	13.9	414
5	The cell biology of synaptic plasticity: AMPA receptor trafficking. <i>Annual Review of Cell and Developmental Biology</i> , 2007 , 23, 613-43	12.6	755
4	Arc/Arg3.1 interacts with the endocytic machinery to regulate AMPA receptor trafficking. <i>Neuron</i> , 2006 , 52, 445-59	13.9	576
3	Arc/Arg3.1 mediates homeostatic synaptic scaling of AMPA receptors. <i>Neuron</i> , 2006 , 52, 475-84	13.9	570
2	Triple-transgenic model of Alzheimers disease with plaques and tangles: intracellular Abeta and synaptic dysfunction. <i>Neuron</i> , 2003 , 39, 409-21	13.9	3031
1	The immediate early gene Arc is not required for hippocampal long-term potentiation		1