

# John F Guzowski

## List of Publications by Year in descending order

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39  
papers

7,850  
citations

136885

32  
h-index

330025

37  
g-index

41  
all docs

41  
docs citations

41  
times ranked

6828  
citing authors

#	ARTICLE	IF	CITATIONS
1	Environment-specific expression of the immediate-early gene Arc in hippocampal neuronal ensembles. <i>Nature Neuroscience</i> , 1999, 2, 1120-1124.	7.1	920
2	Inhibition of Activity-Dependent Arc Protein Expression in the Rat Hippocampus Impairs the Maintenance of Long-Term Potentiation and the Consolidation of Long-Term Memory. <i>Journal of Neuroscience</i> , 2000, 20, 3993-4001.	1.7	916
3	Experience-Dependent Gene Expression in the Rat Hippocampus after Spatial Learning: A Comparison of the Immediate-Early Genes <i>Arc</i> , <i>c-fos</i> , and <i>zif268</i> . <i>Journal of Neuroscience</i> , 2001, 21, 5089-5098.	1.7	668
4	Neuronal Competition and Selection During Memory Formation. <i>Science</i> , 2007, 316, 457-460.	6.0	573
5	The Immediate Early Gene <i>Arc</i> / <i>Arg3.1</i> : Regulation, Mechanisms, and Function. <i>Journal of Neuroscience</i> , 2008, 28, 11760-11767.	1.7	436
6	Differences in Hippocampal Neuronal Population Responses to Modifications of an Environmental Context: Evidence for Distinct, Yet Complementary, Functions of CA3 and CA1 Ensembles. <i>Journal of Neuroscience</i> , 2004, 24, 6489-6496.	1.7	407
7	Mapping behaviorally relevant neural circuits with immediate-early gene expression. <i>Current Opinion in Neurobiology</i> , 2005, 15, 599-606.	2.0	349
8	Insights into immediate-early gene function in hippocampal memory consolidation using antisense oligonucleotide and fluorescent imaging approaches. <i>Hippocampus</i> , 2002, 12, 86-104.	0.9	345
9	Ensemble Dynamics of Hippocampal Regions CA3 and CA1. <i>Neuron</i> , 2004, 44, 581-584.	3.8	302
10	A hybrid 3D watershed algorithm incorporating gradient cues and object models for automatic segmentation of nuclei in confocal image stacks. <i>Cytometry</i> , 2003, 56A, 23-36.	1.8	276
11	Experience-Dependent Coincident Expression of the Effector Immediate-Early Genes <i>Arc</i> and <i>Homer 1a</i> in Hippocampal and Neocortical Neuronal Networks. <i>Journal of Neuroscience</i> , 2002, 22, 10067-10071.	1.7	272
12	Using immediate-early genes to map hippocampal subregional functions. <i>Learning and Memory</i> , 2007, 14, 758-770.	0.5	229
13	Memory-influencing intra-basolateral amygdala drug infusions modulate expression of Arc protein in the hippocampus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 10718-10723.	3.3	222
14	Spatial exploration induces <i>ARC</i> , a plasticity-related immediate-early gene, only in calcium/calmodulin-dependent protein kinase II-positive principal excitatory and inhibitory neurons of the rat forebrain. <i>Journal of Comparative Neurology</i> , 2006, 498, 317-329.	0.9	217
15	Synaptic Activity-Induced Conversion of Intronic to Exonic Sequence in Homer 1 Immediate Early Gene Expression. <i>Journal of Neuroscience</i> , 2002, 22, 167-175.	1.7	177
16	Recent behavioral history modifies coupling between cell activity and Arc gene transcription in hippocampal CA1 neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 1077-1082.	3.3	155
17	Networks of neurons, networks of genes: An integrated view of memory consolidation. <i>Neurobiology of Learning and Memory</i> , 2008, 89, 269-284.	1.0	139
18	Systemic lipopolysaccharide administration impairs retrieval of context-specific object discrimination, but not spatial, memory: Evidence for selective disruption of specific hippocampus-dependent memory functions during acute neuroinflammation. <i>Brain, Behavior, and Immunity</i> , 2015, 44, 159-166.	2.0	114

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19	Cisplatin-induced mitochondrial dysfunction is associated with impaired cognitive function in rats. <i>Free Radical Biology and Medicine</i> , 2017, 102, 274-286.	1.3	110
20	Rapid Activation of Plasticity-Associated Gene Transcription in Hippocampal Neurons Provides a Mechanism for Encoding of One-Trial Experience. <i>Journal of Neuroscience</i> , 2009, 29, 898-906.	1.7	101
21	Imaging neural activity with temporal and cellular resolution using FISH. <i>Current Opinion in Neurobiology</i> , 2001, 11, 579-584.	2.0	97
22	Expression and Function of SNAP-25 as a Universal SNARE Component in GABAergic Neurons. <i>Journal of Neuroscience</i> , 2006, 26, 7826-7838.	1.7	97
23	Acute Neuroinflammation Impairs Context Discrimination Memory and Disrupts Pattern Separation Processes in Hippocampus. <i>Journal of Neuroscience</i> , 2014, 34, 12470-12480.	1.7	94
24	A multi-model approach to simultaneous segmentation and classification of heterogeneous populations of cell nuclei in 3D confocal microscope images. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2007, 71A, 724-736.	1.1	90
25	Hierarchical, model-based merging of multiple fragments for improved three-dimensional segmentation of nuclei. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2005, 63A, 20-33.	1.1	88
26	Amyloid suppresses induction of genes critical for memory consolidation in APP <sup>f</sup> +PS1 transgenic mice. <i>Journal of Neurochemistry</i> , 2004, 88, 434-442.	2.1	80
27	Cellular Compartment Analysis of Temporal Activity by Fluorescence In Situ Hybridization (catFISH). <i>Current Protocols in Neuroscience</i> , 2001, 15, 1.8.1-1.8.16.	2.6	61
28	3D-catFISH: a system for automated quantitative three-dimensional compartmental analysis of temporal gene transcription activity imaged by fluorescence in situ hybridization. <i>Journal of Neuroscience Methods</i> , 2004, 139, 13-24.	1.3	54
29	Mapping neuronal activation and the influence of adrenergic signaling during contextual memory retrieval. <i>Learning and Memory</i> , 2005, 12, 239-247.	0.5	46
30	Temporal dynamics of Arc gene induction in hippocampus: Relationship to context memory formation. <i>Neurobiology of Learning and Memory</i> , 2012, 97, 313-320.	1.0	45
31	Selective cholinergic depletion of the hippocampus spares both behaviorally induced Arc transcription and spatial learning and memory. <i>Hippocampus</i> , 2007, 17, 227-234.	0.9	32
32	Advanced imaging of multiple mRNAs in brain tissue using a custom hyperspectral imager and multivariate curve resolution. <i>Journal of Neuroscience Methods</i> , 2007, 160, 144-148.	1.3	32
33	Loss of activity-dependent Arc gene expression in the retrosplenial cortex after hippocampal inactivation: Interaction in a higher-order memory circuit. <i>Neurobiology of Learning and Memory</i> , 2012, 97, 124-131.	1.0	30
34	A form of perforant path LTP can occur without ERK1/2 phosphorylation or immediate early gene induction. <i>Learning and Memory</i> , 2007, 14, 433-445.	0.5	24
35	Retrieval-induced NMDA receptor-dependent Arc expression in two models of cocaine-cue memory. <i>Neurobiology of Learning and Memory</i> , 2014, 116, 79-89.	1.0	23
36	Hypothesis. <i>Anesthesiology</i> , 2008, 109, 768-770.	1.3	15

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37	Immediate-early gene transcriptional activation in hippocampus CA1 and CA3 does not accurately reflect rapid, pattern completion-based retrieval of context memory. <i>Learning and Memory</i> , 2015, 22, 1-5.	0.5	7
38	Imaging multiple endogenous and exogenous fluorescent species in cells and tissues. , 2006, , .		3
39	Immediate Early Genes and the Mapping of Environmental Representations in Hippocampal Neural Networks. , 2006, , 159-176.		2