

# Daniel T S Pak

## List of Publications by Year in descending order

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34  
papers

1,991  
citations

361413

20  
h-index

395702

33  
g-index

35  
all docs

35  
docs citations

35  
times ranked

2737  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ligand-Gated Ion Channel Interactions with Cytoskeletal and Signaling Proteins. Annual Review of Physiology, 2000, 62, 755-778.	13.1	336
2	Targeted Protein Degradation and Synapse Remodeling by an Inducible Protein Kinase. Science, 2003, 302, 1368-1373.	12.6	282
3	Critical Role of CDK5 and Polo-like Kinase 2 in Homeostatic Synaptic Plasticity during Elevated Activity. Neuron, 2008, 58, 571-583.	8.1	208
4	GKAP orchestrates activity-dependent postsynaptic protein remodeling and homeostatic scaling. Nature Neuroscience, 2012, 15, 1655-1666.	14.8	119
5	The Effects of Amyloid Precursor Protein on Postsynaptic Composition and Activity. Journal of Biological Chemistry, 2009, 284, 8495-8506.	3.4	101
6	Requirement for Plk2 in Orchestrated Ras and Rap Signaling, Homeostatic Structural Plasticity, and Memory. Neuron, 2011, 69, 957-973.	8.1	88
7	Neuroigin 1 regulates spines and synaptic plasticity via LIMK1/cofilin-mediated actin reorganization. Journal of Cell Biology, 2016, 212, 449-463.	5.2	79
8	Polo-like kinases in the nervous system. Oncogene, 2005, 24, 292-298.	5.9	78
9	Differential roles of Rap1 and Rap2 small GTPases in neurite retraction and synapse elimination in hippocampal spiny neurons. Journal of Neurochemistry, 2007, 100, 118-131.	3.9	75
10	Mossy Fiber-CA3 Synapses Mediate Homeostatic Plasticity in Mature Hippocampal Neurons. Neuron, 2013, 77, 99-114.	8.1	74
11	The Upside of APP at Synapses. CNS Neuroscience and Therapeutics, 2012, 18, 47-56.	3.9	68
12	Plk2 attachment to NSF induces homeostatic removal of GluA2 during chronic overexcitation. Nature Neuroscience, 2010, 13, 1199-1207.	14.8	58
13	Inhibitory Parvalbumin Basket Cell Activity is Selectively Reduced during Hippocampal Sharp Wave Ripples in a Mouse Model of Familial Alzheimer's Disease. Journal of Neuroscience, 2020, 40, 5116-5136.	3.6	47
14	ApoE Receptor 2 Regulates Synapse and Dendritic Spine Formation. PLoS ONE, 2011, 6, e17203.	2.5	43
15	Motor Skill Training Induces Coordinated Strengthening and Weakening between Neighboring Synapses. Journal of Neuroscience, 2013, 33, 9794-9799.	3.6	42
16	Postsynaptic PDLIM5/Enigma Homolog binds SPAR and causes dendritic spine shrinkage. Molecular and Cellular Neurosciences, 2010, 43, 188-200.	2.2	38
17	Microtubule-associated protein 2 mediates induction of long-term potentiation in hippocampal neurons. FASEB Journal, 2020, 34, 6965-6983.	0.5	35
18	Wherefore Art Thou, Homeo(stasis)? Functional Diversity in Homeostatic Synaptic Plasticity. Neural Plasticity, 2012, 2012, 1-12.	2.2	34

#	ARTICLE	IF	CITATIONS
19	A tetra(ethylene glycol) derivative of benzothiazole aniline ameliorates dendritic spine density and cognitive function in a mouse model of Alzheimer's disease. <i>Experimental Neurology</i> , 2014, 252, 105-113.	4.1	31
20	Combinatorial morphogenesis of dendritic spines and filopodia by SPAR and $\beta$ -actinin2. <i>Biochemical and Biophysical Research Communications</i> , 2009, 384, 55-60.	2.1	24
21	A Mercaptoacetamide-Based Class II Histone Deacetylase Inhibitor Increases Dendritic Spine Density via RasGRF1/ERK Pathway. <i>Journal of Alzheimer's Disease</i> , 2016, 51, 591-604.	2.6	21
22	Polo-like kinase 2 phosphorylation of amyloid precursor protein regulates activity-dependent amyloidogenic processing. <i>Neuropharmacology</i> , 2017, 117, 387-400.	4.1	21
23	Inhibition of Polo-like kinase 2 ameliorates pathogenesis in Alzheimer's disease model mice. <i>PLoS ONE</i> , 2019, 14, e0219691.	2.5	14
24	Evidence for glycinergic GluN1/GluN3 NMDA receptors in hippocampal metaplasticity. <i>Neurobiology of Learning and Memory</i> , 2015, 125, 265-273.	1.9	11
25	Kappa opioid receptors regulate hippocampal synaptic homeostasis and epileptogenesis. <i>Epilepsia</i> , 2018, 59, 106-122.	5.1	11
26	Identification and functional characterization of polo-like kinase 2 autoregulatory sites. <i>Neuroscience</i> , 2012, 202, 147-157.	2.3	10
27	Hexa (ethylene glycol) derivative of benzothiazole aniline promotes dendritic spine formation through the RasGRF1 $\rightarrow$ Ras dependent pathway. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016, 1862, 284-295.	3.8	10
28	Activation of nicotinic acetylcholine receptors induces potentiation and synchronization within in vitro hippocampal networks. <i>Journal of Neurochemistry</i> , 2020, 153, 468-484.	3.9	9
29	Divergent effects of levetiracetam and tiagabine against spontaneous seizures in adult rats following neonatal hypoxia. <i>Epilepsy Research</i> , 2018, 140, 1-7.	1.6	7
30	Synapses need coordination to learn motor skills. <i>Reviews in the Neurosciences</i> , 2014, 25, 223-30.	2.9	6
31	Central Cholinergic Synapse Formation in Optimized Primary Septal-Hippocampal Co-cultures. <i>Cellular and Molecular Neurobiology</i> , 2021, 41, 1787-1799.	3.3	5
32	Mapping homeostatic synaptic plasticity using cable properties of dendrites. <i>Neuroscience</i> , 2016, 315, 206-216.	2.3	4
33	A mobile APP for sharing contacts on your cell. <i>Journal of Neurochemistry</i> , 2017, 143, 9-10.	3.9	1
34	ACh Transfers: Homeostatic Plasticity of Cholinergic Synapses. <i>Cellular and Molecular Neurobiology</i> , 2023, 43, 697-709.	3.3	1