

# Saak V Ovsepian

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,483  
citations

394421  
19  
h-index

345221  
36  
g-index

52  
all docs

52  
docs citations

52  
times ranked

2551  
citing authors

#	ARTICLE	IF	CITATIONS
1	Î-Secretase processing of APP inhibits neuronal activity in the hippocampus. <i>Nature</i> , 2015, 526, 443-447.	27.8	308
2	Endogenous acetylcholine lowers the threshold for long-term potentiation induction in the CA1 area through muscarinic receptor activation: in vivo study. <i>European Journal of Neuroscience</i> , 2004, 20, 1267-1275.	2.6	140
3	Pharmacological Inhibition of BACE1 Impairs Synaptic Plasticity and Cognitive Functions. <i>Biological Psychiatry</i> , 2015, 77, 729-739.	1.3	109
4	Non-invasive Measurement of Brown Fat Metabolism Based on Optoacoustic Imaging of Hemoglobin Gradients. <i>Cell Metabolism</i> , 2018, 27, 689-701.e4.	16.2	105
5	Pushing the Boundaries of Neuroimaging with Optoacoustics. <i>Neuron</i> , 2017, 96, 966-988.	8.1	54
6	Dendritic SNAREs add a new twist to the old neuron theory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 19113-19120.	7.1	48
7	Disruption of Myelin Leads to Ectopic Expression of KV1.1 Channels with Abnormal Conductivity of Optic Nerve Axons in a Cuprizone-Induced Model of Demyelination. <i>PLoS ONE</i> , 2014, 9, e87736.	2.5	45
8	Distinctive role of KV1.1 subunit in the biology and functions of low threshold K <sup>+</sup> channels with implications for neurological disease. , 2016, 159, 93-101.		45
9	The <i>leaner</i> P/Q-type calcium channel mutation renders cerebellar Purkinje neurons hyperexcitable and eliminates Ca <sup>2+</sup> Na <sup>+</sup> spike bursts. <i>European Journal of Neuroscience</i> , 2008, 27, 93-103.	2.6	40
10	Synaptic vesicle cycle and amyloid Î²: Biting the hand that feeds. <i>Alzheimer's and Dementia</i> , 2018, 14, 502-513.	0.8	40
11	Neurotrophin receptor p75 mediates the uptake of the amyloid beta (AÎ²) peptide, guiding it to lysosomes for degradation in basal forebrain cholinergic neurons. <i>Brain Structure and Function</i> , 2014, 219, 1527-1541.	2.3	32
12	Neuronal Activity and Amyloid Plaque Pathology: An Update. <i>Journal of Alzheimer's Disease</i> , 2015, 49, 13-19.	2.6	29
13	Brain-derived neurotrophic factor (BDNF) promotes molecular polarization and differentiation of immature neuroblastoma cells into definitive neurons. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2020, 1867, 118737.	4.1	29
14	Amyloid Plaques of Alzheimer's Disease as Hotspots of Glutamatergic Activity. <i>Neuroscientist</i> , 2019, 25, 288-297.	3.5	27
15	Cholinergic Mechanisms in the Cerebral Cortex. <i>Neuroscientist</i> , 2016, 22, 238-251.	3.5	26
16	Quantitative intravascular biological fluorescence-ultrasound imaging of coronary and peripheral arteries in vivo. <i>European Heart Journal Cardiovascular Imaging</i> , 2017, 18, 1253-1261.	1.2	26
17	Hybrid multispectral optoacoustic and ultrasound tomography for morphological and physiological brain imaging. <i>Journal of Biomedical Optics</i> , 2016, 21, 086005.	2.6	25
18	Extended Near-Infrared Optoacoustic Spectrometry for Sensing Physiological Concentrations of Glucose. <i>Frontiers in Endocrinology</i> , 2018, 9, 112.	3.5	24

#	ARTICLE	IF	CITATIONS
19	Methamphetamine and sleep impairments: neurobehavioral correlates and molecular mechanisms. Sleep, 2021, 44, .	1.1	24
20	High-Resolution Multispectral Optoacoustic Tomography of the Vascularization and Constitutive Hypoxemia of Cancerous Tumors. Neoplasia, 2016, 18, 459-467.	5.3	23
21	Pathological $\alpha$ -synuclein impairs adult-born granule cell development and functional integration in the olfactory bulb. Nature Communications, 2014, 5, 3915.	12.8	22
22	A defined heteromeric $K_{V1}$ channel stabilizes the intrinsic pacemaking and regulates the output of deep cerebellar nuclear neurons to thalamic targets. Journal of Physiology, 2013, 591, 1771-1791.	2.9	19
23	Spatial and Spectral Mapping and Decomposition of Neural Dynamics and Organization of the Mouse Brain with Multispectral Optoacoustic Tomography. Cell Reports, 2019, 26, 2833-2846.e3.	6.4	19
24	The birth of the synapse. Brain Structure and Function, 2017, 222, 3369-3374.	2.3	18
25	Enhanced Synaptic Inhibition Disrupts the Efferent Code of Cerebellar Purkinje Neurons in Leaner Cav2.1 $Ca^{2+}$ Channel Mutant Mice. Cerebellum, 2012, 11, 666-680.	2.5	17
26	Neurobiology, Functions, and Relevance of Excitatory Amino Acid Transporters (EAATs) to Treatment of Refractory Epilepsy. CNS Drugs, 2020, 34, 1089-1103.	5.9	17
27	Neurobiology and therapeutic applications of neurotoxins targeting transmitter release. , 2019, 193, 135-155.		16
28	Circumventing Brain Barriers: Nanovehicles for Retroaxonal Therapeutic Delivery. Trends in Molecular Medicine, 2016, 22, 983-993.	6.7	13
29	Endogenous antagonists of $N$ -methyl-D-aspartate receptor in schizophrenia. Alzheimer's and Dementia, 2021, 17, 888-905.	0.8	13
30	Advances in Optoacoustic Neurotomography of Animal Models. Trends in Biotechnology, 2019, 37, 1315-1326.	9.3	11
31	Tuberous Sclerosis ( $tsc2+/-$ ) Model Eker Rats Reveals Extensive Neuronal Loss with Microglial Invasion and Vascular Remodeling Related to Brain Neoplasia. Neurotherapeutics, 2020, 17, 329-339.	4.4	11
32	Serotonergic modulation of synaptic transmission and action potential firing in frog motoneurons. Brain Research, 2006, 1102, 71-77.	2.2	9
33	$\alpha$ The RNA podium for genomic silencers. Journal of Cellular Physiology, 2019, 234, 19464-19470.	4.1	9
34	Visualizing cortical response to optogenetic stimulation and sensory inputs using multispectral handheld optoacoustic imaging. Photoacoustics, 2020, 17, 100153.	7.8	9
35	Expression and Localization of $A\beta$ PP in SH-SY5Y Cells Depends on Differentiation State. Journal of Alzheimer's Disease, 2021, 82, 485-491.	2.6	9
36	Estrogen pendulum in schizophrenia and Alzheimer's disease: Review of therapeutic benefits and outstanding questions. Neuroscience Letters, 2021, 759, 136038.	2.1	9

#	ARTICLE	IF	CITATIONS
37	Autoantibodies targeting neuronal proteins as biomarkers for neurodegenerative diseases. Theranostics, 2022, 12, 3045-3056.	10.0	8
38	Cholinergic neurons “keeping check on amyloid $\beta$ in the cerebral cortex. Frontiers in Cellular Neuroscience, 2013, 7, 252.	3.7	7
39	Dendritic spine remodeling and plasticity under general anesthesia. Brain Structure and Function, 2021, 226, 2001-2017.	2.3	7
40	Evolutionary origins of chemical synapses. Vitamins and Hormones, 2020, 114, 1-21.	1.7	6
41	Electrophysiological approaches to unravel the neurobiological basis of appetite and satiety: use of the multielectrode array as a screening strategy. Drug Discovery Today, 2017, 22, 31-42.	6.4	5
42	Neurobiology and therapeutic utility of neurotoxins targeting postsynaptic mechanisms of neuromuscular transmission. Drug Discovery Today, 2019, 24, 1968-1984.	6.4	5
43	Revisiting Brain Tuberous Sclerosis Complex in Rat and Human: Shared Molecular and Cellular Pathology Leads to Distinct Neurophysiological and Behavioral Phenotypes. Neurotherapeutics, 2021, 18, 845-858.	4.4	5
44	The Ups and Downs of BACE1: Walking a Fine Line between Neurocognitive and Other Psychiatric Symptoms of Alzheimer’s Disease. Neuroscientist, 2021, 27, 222-234.	3.5	4
45	All-Trans Retinoic Acid Fosters the Multifarious U87MG Cell Line as a Model of Glioblastoma. Brain Sciences, 2021, 11, 812.	2.3	4
46	Enhanced Extracellular Transfer of HLA-DQ Activates CD3+ Lymphocytes towards Compromised Treg Induction in Celiac Disease. International Journal of Molecular Sciences, 2022, 23, 6102.	4.1	4
47	Integrated phylogeny of the human brain and pathobiology of Alzheimer’s disease: A unifying hypothesis. Neuroscience Letters, 2021, 755, 135895.	2.1	3
48	Cerebellar demyelination and neurodegeneration associated with <i>mTORC1</i> hyperactivity may contribute to the developmental onset of <i>autism-like</i> neurobehavioral phenotype in a rat model. Autism Research, 2022, , .	3.8	3
49	Optoacoustic endoscopy with optical and acoustic resolution. , 2017, , .		1
50	Mainstream psychiatry reinstates therapeutic ventures of the remote past. Drug Discovery Today, 2021, 26, 845-851.	6.4	1