

# Aiman S Saab

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9041985/publications.pdf>

Version: 2024-02-01

23  
papers

3,639  
citations

394421

19  
h-index

677142

22  
g-index

28  
all docs

28  
docs citations

28  
times ranked

5377  
citing authors

#	ARTICLE	IF	CITATIONS
1	Glycolytic oligodendrocytes maintain myelin and long-term axonal integrity. <i>Nature</i> , 2012, 485, 517-521.	27.8	1,120
2	Neurotransmitter-Triggered Transfer of Exosomes Mediates Oligodendrocyte-Neuron Communication. <i>PLoS Biology</i> , 2013, 11, e1001604.	5.6	663
3	Oligodendroglial NMDA Receptors Regulate Glucose Import and Axonal Energy Metabolism. <i>Neuron</i> , 2016, 91, 119-132.	8.1	381
4	The role of myelin and oligodendrocytes in axonal energy metabolism. <i>Current Opinion in Neurobiology</i> , 2013, 23, 1065-1072.	4.2	258
5	Bergmann Glial AMPA Receptors Are Required for Fine Motor Coordination. <i>Science</i> , 2012, 337, 749-753.	12.6	191
6	Myelin dynamics: protecting and shaping neuronal functions. <i>Current Opinion in Neurobiology</i> , 2017, 47, 104-112.	4.2	156
7	Monitoring ATP dynamics in electrically active white matter tracts. <i>ELife</i> , 2017, 6, .	6.0	102
8	Electron Microscopy of the Mouse Central Nervous System. <i>Methods in Cell Biology</i> , 2010, 96, 475-512.	1.1	92
9	Phosphatidylinositol 4,5-Bisphosphate-Dependent Interaction of Myelin Basic Protein with the Plasma Membrane in Oligodendroglial Cells and Its Rapid Perturbation by Elevated Calcium. <i>Journal of Neuroscience</i> , 2009, 29, 4794-4807.	3.6	90
10	Long-term In Vivo Calcium Imaging of Astrocytes Reveals Distinct Cellular Compartment Responses to Sensory Stimulation. <i>Cerebral Cortex</i> , 2018, 28, 184-198.	2.9	86
11	Arousal-induced cortical activity triggers lactate release from astrocytes. <i>Nature Metabolism</i> , 2020, 2, 179-191.	11.9	82
12	Non-Canonical Control of Neuronal Energy Status by the Na <sup>+</sup> Pump. <i>Cell Metabolism</i> , 2019, 29, 668-680.e4.	16.2	79
13	Design and performance of an ultra-flexible two-photon microscope for in vivo research. <i>Biomedical Optics Express</i> , 2015, 6, 4228.	2.9	55
14	Shear-stress sensing by PIEZO1 regulates tendon stiffness in rodents and influences jumping performance in humans. <i>Nature Biomedical Engineering</i> , 2021, 5, 1457-1471.	22.5	54
15	Direct vascular contact is a hallmark of cerebral astrocytes. <i>Cell Reports</i> , 2022, 39, 110599.	6.4	47
16	Decoupling astrocytes in adult mice impairs synaptic plasticity and spatial learning. <i>Cell Reports</i> , 2022, 38, 110484.	6.4	43
17	Distinct signatures of calcium activity in brain mural cells. <i>ELife</i> , 2021, 10, .	6.0	31
18	Why do oligodendrocyte lineage cells express glutamate receptors?. <i>F1000 Biology Reports</i> , 2010, 2, 57.	4.0	28

#	ARTICLE	IF	CITATIONS
19	Differences in glutamate uptake between cortical regions impact neuronal NMDA receptor activation. <i>Communications Biology</i> , 2019, 2, 127.	4.4	25
20	Genetic Background Affects Human Glial Fibrillary Acidic Protein Promoter Activity. <i>PLoS ONE</i> , 2013, 8, e66873.	2.5	19
21	A mechanism for myelin injury. <i>Nature</i> , 2016, 529, 474-475.	27.8	16
22	Intravitreal AAV-Delivery of Genetically Encoded Sensors Enabling Simultaneous Two-Photon Imaging and Electrophysiology of Optic Nerve Axons. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 377.	3.7	14
23	Glia-neuron metabolic interaction in the light of in vivo two-photon imaging: Astrocytes release lactate upon arousal-induced cortical activity. , 2019, , .		0