

# Aiman S Saab

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

3,639  
citations

393982

19  
h-index

676716

22  
g-index

28  
all docs

28  
docs citations

28  
times ranked

5377  
citing authors

#	ARTICLE	IF	CITATIONS
1	Decoupling astrocytes in adult mice impairs synaptic plasticity and spatial learning. <i>Cell Reports</i> , 2022, 38, 110484.	2.9	43
2	Direct vascular contact is a hallmark of cerebral astrocytes. <i>Cell Reports</i> , 2022, 39, 110599.	2.9	47
3	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.	11.6	54
4	Distinct signatures of calcium activity in brain mural cells. <i>ELife</i> , 2021, 10, .	2.8	31
5	Arousal-induced cortical activity triggers lactate release from astrocytes. <i>Nature Metabolism</i> , 2020, 2, 179-191.	5.1	82
6	Differences in glutamate uptake between cortical regions impact neuronal NMDA receptor activation. <i>Communications Biology</i> , 2019, 2, 127.	2.0	25
7	Non-Canonical Control of Neuronal Energy Status by the Na <sup>+</sup> Pump. <i>Cell Metabolism</i> , 2019, 29, 668-680.e4.	7.2	79
8	Glia-neuron metabolic interaction in the light of in vivo two-photon imaging: Astrocytes release lactate upon arousal-induced cortical activity. , 2019, , .		0
9	Long-term In Vivo Calcium Imaging of Astrocytes Reveals Distinct Cellular Compartment Responses to Sensory Stimulation. <i>Cerebral Cortex</i> , 2018, 28, 184-198.	1.6	86
10	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.	1.8	14
11	Myelin dynamics: protecting and shaping neuronal functions. <i>Current Opinion in Neurobiology</i> , 2017, 47, 104-112.	2.0	156
12	Monitoring ATP dynamics in electrically active white matter tracts. <i>ELife</i> , 2017, 6, .	2.8	102
13	Oligodendroglial NMDA Receptors Regulate Glucose Import and Axonal Energy Metabolism. <i>Neuron</i> , 2016, 91, 119-132.	3.8	381
14	A mechanism for myelin injury. <i>Nature</i> , 2016, 529, 474-475.	13.7	16
15	Design and performance of an ultra-flexible two-photon microscope for in vivo research. <i>Biomedical Optics Express</i> , 2015, 6, 4228.	1.5	55
16	The role of myelin and oligodendrocytes in axonal energy metabolism. <i>Current Opinion in Neurobiology</i> , 2013, 23, 1065-1072.	2.0	258
17	Neurotransmitter-Triggered Transfer of Exosomes Mediates Oligodendrocyte-Neuron Communication. <i>PLoS Biology</i> , 2013, 11, e1001604.	2.6	663
18	Genetic Background Affects Human Glial Fibrillary Acidic Protein Promoter Activity. <i>PLoS ONE</i> , 2013, 8, e66873.	1.1	19

#	ARTICLE	IF	CITATIONS
19	Bergmann Glial AMPA Receptors Are Required for Fine Motor Coordination. <i>Science</i> , 2012, 337, 749-753.	6.0	191
20	Glycolytic oligodendrocytes maintain myelin and long-term axonal integrity. <i>Nature</i> , 2012, 485, 517-521.	13.7	1,120
21	Electron Microscopy of the Mouse Central Nervous System. <i>Methods in Cell Biology</i> , 2010, 96, 475-512.	0.5	92
22	Why do oligodendrocyte lineage cells express glutamate receptors?. <i>F1000 Biology Reports</i> , 2010, 2, 57.	4.0	28
23	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.	1.7	90