

Sabina Hrabetova

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2017689/publications.pdf>

Version: 2024-02-01

29
papers

1,502
citations

430874

18
h-index

501196

28
g-index

33
all docs

33
docs citations

33
times ranked

1433
citing authors

#	ARTICLE	IF	CITATIONS
1	Brain Extracellular Space: The Final Frontier of Neuroscience. <i>Biophysical Journal</i> , 2017, 113, 2133-2142.	0.5	232
2	A Model of Effective Diffusion and Tortuosity in the Extracellular Space of the Brain. <i>Biophysical Journal</i> , 2004, 87, 1606-1617.	0.5	136
3	Aquaporin-4-Deficient Mice Have Increased Extracellular Space without Tortuosity Change. <i>Journal of Neuroscience</i> , 2008, 28, 5460-5464.	3.6	134
4	Hyaluronan Deficiency Due to <i>Has3</i> Knock-Out Causes Altered Neuronal Activity and Seizures via Reduction in Brain Extracellular Space. <i>Journal of Neuroscience</i> , 2014, 34, 6164-6176.	3.6	120
5	Calcium diffusion enhanced after cleavage of negatively charged components of brain extracellular matrix by chondroitinase ABC. <i>Journal of Physiology</i> , 2009, 587, 4029-4049.	2.9	87
6	Dead-Space Microdomains Hinder Extracellular Diffusion in Rat Neocortex during Ischemia. <i>Journal of Neuroscience</i> , 2003, 23, 8351-8359.	3.6	86
7	Unveiling the Extracellular Space of the Brain: From Super-resolved Microstructure to <i>In Vivo</i> Function. <i>Journal of Neuroscience</i> , 2018, 38, 9355-9363.	3.6	79
8	Contribution of dead-space microdomains to tortuosity of brain extracellular space. <i>Neurochemistry International</i> , 2004, 45, 467-477.	3.8	78
9	Independence of extracellular tortuosity and volume fraction during osmotic challenge in rat neocortex. <i>Journal of Physiology</i> , 2002, 542, 515-527.	2.9	69
10	Activation of α_1 -adrenergic receptors in rat visual cortex expands astrocytic processes and reduces extracellular space volume. <i>Synapse</i> , 2016, 70, 307-316.	1.2	60
11	Diffusion of Flexible Random-Coil Dextran Polymers Measured in Anisotropic Brain Extracellular Space by Integrative Optical Imaging. <i>Biophysical Journal</i> , 2008, 95, 1382-1392.	0.5	58
12	Extracellular diffusion is fast and isotropic in the stratum radiatum of hippocampal CA1 region in rat brain slices. <i>Hippocampus</i> , 2005, 15, 441-450.	1.9	51
13	Brain extracellular space, hyaluronan, and the prevention of epileptic seizures. <i>Reviews in the Neurosciences</i> , 2017, 28, 869-892.	2.9	39
14	Anomalous Extracellular Diffusion in Rat Cerebellum. <i>Biophysical Journal</i> , 2015, 108, 2384-2395.	0.5	35
15	Light scattering in rat neocortical slices differs during spreading depression and ischemia. <i>Brain Research</i> , 2002, 952, 290-300.	2.2	33
16	Dextran Decreases Extracellular Tortuosity in Thick-Slice Ischemia Model. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2000, 20, 1306-1310.	4.3	31
17	Water Compartmentalization and Spread of Ischemic Injury in Thick-Slice Ischemia Model. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002, 22, 80-88.	4.3	30
18	ECS Dynamism and Its Influence on Neuronal Excitability and Seizures. <i>Neurochemical Research</i> , 2019, 44, 1020-1036.	3.3	20

#	ARTICLE	IF	CITATIONS
19	Extracellular diffusion in laminar brain structures exemplified by hippocampus. <i>Journal of Neuroscience Methods</i> , 2012, 205, 110-118.	2.5	18
20	Time-Resolved Integrative Optical Imaging of Diffusion during Spreading Depression. <i>Biophysical Journal</i> , 2019, 117, 1783-1794.	0.5	18
21	Real-time Iontophoresis with Tetramethylammonium to Quantify Volume Fraction and Tortuosity of Brain Extracellular Space. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	17
22	Rapid volume pulsation of the extracellular space coincides with epileptiform activity in mice and depends on the NBCe1 transporter. <i>Journal of Physiology</i> , 2021, 599, 3195-3220.	2.9	17
23	Glutathione-induced swelling of astrocytes hinders diffusion in brain extracellular space via formation of dead-space microdomains. <i>Glia</i> , 2014, 62, 1053-1065.	4.9	16
24	Probing Neuropeptide Volume Transmission In Vivo by Simultaneous Near-Infrared Light-Triggered Release and Optical Sensing**. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	14
25	Characterizing molecular probes for diffusion measurements in the brain. <i>Journal of Neuroscience Methods</i> , 2008, 171, 218-225.	2.5	11
26	Integrity of White Matter is Compromised in Mice with Hyaluronan Deficiency. <i>Neurochemical Research</i> , 2020, 45, 53-67.	3.3	4
27	T-type calcium channels contribute to calcium disturbances in brain during hyponatremia. <i>Experimental Neurology</i> , 2015, 273, 105-113.	4.1	3
28	Brain extracellular space of the naked mole-rat expands and maintains normal diffusion under ischemic conditions. <i>Brain Research</i> , 2021, 1771, 147646.	2.2	2
29	Probing Neuropeptide Volume Transmission In Vivo by Simultaneous Near-Infrared Light Triggered Release and Optical Sensing. <i>Angewandte Chemie</i> , 0, , .	2.0	1