

Tomáš Mazel

List of Publications by Year in descending order

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17
papers

1,097
citations

516215

16
h-index

887659

17
g-index

17
all docs

17
docs citations

17
times ranked

1550
citing authors

#	ARTICLE	IF	CITATIONS
1	RabGEFs are a major determinant for specific Rab membrane targeting. <i>Journal of Cell Biology</i> , 2013, 200, 287-300.	2.3	166
2	Dysregulated Fc γ RI Signaling and Altered Fyn and SHIP Activities in Lyn-Deficient Mast Cells. <i>Journal of Immunology</i> , 2004, 173, 100-112.	0.4	120
3	Changes in extracellular space size and geometry in APP23 transgenic mice: A model of Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 479-484.	3.3	107
4	Diffusion constraints and neuron-glia interaction during aging. <i>Experimental Gerontology</i> , 1998, 33, 837-851.	1.2	99
5	Reaction Diffusion Modeling of Calcium Dynamics with Realistic ER Geometry. <i>Biophysical Journal</i> , 2006, 91, 537-557.	0.2	99
6	An excitable Rho GTPase signaling network generates dynamic subcellular contraction patterns. <i>Journal of Cell Biology</i> , 2017, 216, 4271-4285.	2.3	88
7	Independence of extracellular tortuosity and volume fraction during osmotic challenge in rat neocortex. <i>Journal of Physiology</i> , 2002, 542, 515-527.	1.3	69
8	Reduced extracellular space in the brain of tenascin-R- and HNK-1-sulphotransferase deficient mice. <i>European Journal of Neuroscience</i> , 2005, 22, 1873-1880.	1.2	66
9	Effect of elevated K ⁺ , hypotonic stress, and cortical spreading depression on astrocyte swelling in GFAP-deficient mice. <i>Glia</i> , 2001, 35, 189-203.	2.5	61
10	Extracellular space diffusion and pathological states. <i>Progress in Brain Research</i> , 2000, 125, 155-178.	0.9	56
11	System with embedded drug release and nanoparticle degradation sensor showing efficient rifampicin delivery into macrophages. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 307-315.	1.7	38
12	Optogenetic Tuning Reveals Rho Amplification-Dependent Dynamics of a Cell Contraction Signal Network. <i>Cell Reports</i> , 2020, 33, 108467.	2.9	31
13	Stochastic Modeling of Calcium in 3D Geometry. <i>Biophysical Journal</i> , 2009, 96, 1691-1706.	0.2	24
14	Long distance signalling in volume transmission. Focus on clearance mechanisms. <i>Progress in Brain Research</i> , 2000, 125, 399-413.	0.9	22
15	Direct observation of microtubule pushing by cortical dynein in living cells. <i>Molecular Biology of the Cell</i> , 2014, 25, 95-106.	0.9	19
16	Reproduction of the FC/DFC units in nucleoli. <i>Nucleus</i> , 2016, 7, 203-215.	0.6	18
17	Crosstalk of cell polarity signaling pathways. <i>Protoplasma</i> , 2017, 254, 1241-1258.	1.0	14