

Matthew R Banghart

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

2,347
citations

471509

17
h-index

713466

21
g-index

27
all docs

27
docs citations

27
times ranked

2796
citing authors

#	ARTICLE	IF	CITATIONS
1	Light-activated ion channels for remote control of neuronal firing. <i>Nature Neuroscience</i> , 2004, 7, 1381-1386.	14.8	660
2	Photochemical control of endogenous ion channels and cellular excitability. <i>Nature Methods</i> , 2008, 5, 331-338.	19.0	216
3	Photochromic Blockers of Voltage-Gated Potassium Channels. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9097-9101.	13.8	203
4	Tuning Photochromic Ion Channel Blockers. <i>ACS Chemical Neuroscience</i> , 2011, 2, 536-543.	3.5	155
5	Optochemical control of genetically engineered neuronal nicotinic acetylcholine receptors. <i>Nature Chemistry</i> , 2012, 4, 105-111.	13.6	153
6	Nicotine is a Selective Pharmacological Chaperone of Acetylcholine Receptor Number and Stoichiometry. Implications for Drug Discovery. <i>AAPS Journal</i> , 2009, 11, 167-177.	4.4	148
7	Engineering Light-Gated Ion Channels. <i>Biochemistry</i> , 2006, 45, 15129-15141.	2.5	130
8	Photo-Targeted Nanoparticles. <i>Nano Letters</i> , 2010, 10, 250-254.	9.1	120
9	Spectral Evolution of a Photochemical Protecting Group for Orthogonal Two-Color Uncaging with Visible Light. <i>Journal of the American Chemical Society</i> , 2013, 135, 15948-15954.	13.7	102
10	Light-Induced Depolarization of Neurons Using a Modified Shaker K ⁺ Channel and a Molecular Photoswitch. <i>Journal of Neurophysiology</i> , 2006, 96, 2792-2796.	1.8	92
11	Photoactivatable Neuropeptides for Spatiotemporally Precise Delivery of Opioids in Neural Tissue. <i>Neuron</i> , 2012, 73, 249-259.	8.1	80
12	Optogenetic photochemical control of designer K ⁺ channels in mammalian neurons. <i>Journal of Neurophysiology</i> , 2011, 106, 488-496.	1.8	61
13	The light-sensitive dimerizer zapalog reveals distinct modes of immobilization for axonal mitochondria. <i>Nature Cell Biology</i> , 2019, 21, 768-777.	10.3	56
14	Development of novel Lewis acid catalyzed cycloisomerizations: synthesis of bicyclo[3.1.0]hexenes and cyclopentenones. <i>Tetrahedron</i> , 2003, 59, 8919-8930.	1.9	42
15	Neural basis of opioid-induced respiratory depression and its rescue. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	36
16	A Caged Enkephalin Optimized for Simultaneously Probing Mu and Delta Opioid Receptors. <i>ACS Chemical Neuroscience</i> , 2018, 9, 684-690.	3.5	34
17	Caged Naloxone Reveals Opioid Signaling Deactivation Kinetics. <i>Molecular Pharmacology</i> , 2013, 84, 687-695.	2.3	31
18	Convergent, functionally independent signaling by mu and delta opioid receptors in hippocampal parvalbumin interneurons. <i>ELife</i> , 2021, 10, .	6.0	17

#	ARTICLE	IF	CITATIONS
19	A ¹ H NMR Assay for Measuring the Photostationary States of Photoswitchable Ligands. <i>Methods in Molecular Biology</i> , 2013, 995, 107-120.	0.9	5
20	Photopharmacology: Controlling Native Voltage-Gated Ion Channels with Light. <i>Biophysical Journal</i> , 2010, 98, 212a.	0.5	2
21	It's lights out for presynaptic terminals. <i>Neuron</i> , 2021, 109, 1755-1757.	8.1	2
22	Development of Novel Lewis Acid Catalyzed Cycloisomerizations: Synthesis of Bicyclo[3.1.0]hexenes and Cyclopentenones. <i>ChemInform</i> , 2004, 35, no.	0.0	0
23	Discovery Of Photochromic Ligands That Block Voltage-gated K ⁺ Channels At The Internal TEA Binding Site. <i>Biophysical Journal</i> , 2009, 96, 23a.	0.5	0
24	Light At The End Of The Channel: Photochromic Blockers For Optical Control Of Ion Channels In Individual Cells. <i>Biophysical Journal</i> , 2009, 96, 179a.	0.5	0