Claire N Bedbrook

List of Publications by Year
in descending order

13	1,185	687363 13	1125743 13
papers	citations	h-index	g-index

16	16	16	1904
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Learned protein embeddings for machine learning. Bioinformatics, 2018, 34, 2642-2648.	4.1	223
2	The Jellyfish Cassiopea Exhibits a Sleep-like State. Current Biology, 2017, 27, 2984-2990.e3.	3.9	171
3	Machine learning-guided channelrhodopsin engineering enables minimally invasive optogenetics. Nature Methods, 2019, 16, 1176-1184.	19.0	141
4	Viral Strategies for Targeting the Central and Peripheral Nervous Systems. Annual Review of Neuroscience, 2018, 41, 323-348.	10.7	127
5	Archaerhodopsin variants with enhanced voltage-sensitive fluorescence in mammalian and Caenorhabditis elegans neurons. Nature Communications, 2014, 5, 4894.	12.8	124
6	Machine learning to design integral membrane channelrhodopsins for efficient eukaryotic expression and plasma membrane localization. PLoS Computational Biology, 2017, 13, e1005786.	3.2	96
7	Genetically Encoded Spy Peptide Fusion System to Detect Plasma Membrane-Localized Proteins InÂVivo. Chemistry and Biology, 2015, 22, 1108-1121.	6.0	56
8	Directed Evolution of a Bright Near-Infrared Fluorescent Rhodopsin Using a Synthetic Chromophore. Cell Chemical Biology, 2017, 24, 415-425.	5.2	55
9	Recent advances in engineering microbial rhodopsins for optogenetics. Current Opinion in Structural Biology, 2015, 33, 8-15.	5.7	52
10	Structure-guided SCHEMA recombination generates diverse chimeric channelrhodopsins. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2624-E2633.	7.1	51
11	Competitive Sorption Kinetics of Inhibited Endo- and Exoglucanases on a Model Cellulose Substrate. Langmuir, 2012, 28, 14598-14608.	3.5	41
12	Hypocrea jecorina Cellobiohydrolase I Stabilizing Mutations Identified Using Noncontiguous Recombination. ACS Synthetic Biology, 2013, 2, 690-696.	3.8	20
13	Neuronal activity sensing and modulation with Archers. SPIE Newsroom, 0, , .	0.1	1