

# Claire N Bedbrook

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9083494/publications.pdf>

Version: 2024-02-01

13  
papers

1,185  
citations

687220

13  
h-index

1125617

13  
g-index

16  
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16  
docs citations

16  
times ranked

1904  
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine learning-guided channelrhodopsin engineering enables minimally invasive optogenetics. <i>Nature Methods</i> , 2019, 16, 1176-1184.	9.0	141
2	Viral Strategies for Targeting the Central and Peripheral Nervous Systems. <i>Annual Review of Neuroscience</i> , 2018, 41, 323-348.	5.0	127
3	Learned protein embeddings for machine learning. <i>Bioinformatics</i> , 2018, 34, 2642-2648.	1.8	223
4	Structure-guided SCHEMA recombination generates diverse chimeric channelrhodopsins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2624-E2633.	3.3	51
5	Directed Evolution of a Bright Near-Infrared Fluorescent Rhodopsin Using a Synthetic Chromophore. <i>Cell Chemical Biology</i> , 2017, 24, 415-425.	2.5	55
6	The Jellyfish <i>Cassiopea</i> Exhibits a Sleep-like State. <i>Current Biology</i> , 2017, 27, 2984-2990.e3.	1.8	171
7	Machine learning to design integral membrane channelrhodopsins for efficient eukaryotic expression and plasma membrane localization. <i>PLoS Computational Biology</i> , 2017, 13, e1005786.	1.5	96
8	Recent advances in engineering microbial rhodopsins for optogenetics. <i>Current Opinion in Structural Biology</i> , 2015, 33, 8-15.	2.6	52
9	Genetically Encoded Spy Peptide Fusion System to Detect Plasma Membrane-Localized Proteins In Vivo. <i>Chemistry and Biology</i> , 2015, 22, 1108-1121.	6.2	56
10	Archaerhodopsin variants with enhanced voltage-sensitive fluorescence in mammalian and <i>Caenorhabditis elegans</i> neurons. <i>Nature Communications</i> , 2014, 5, 4894.	5.8	124
11	<i>Hypocrea jecorina</i> Cellobiohydrolase I Stabilizing Mutations Identified Using Noncontiguous Recombination. <i>ACS Synthetic Biology</i> , 2013, 2, 690-696.	1.9	20
12	Competitive Sorption Kinetics of Inhibited Endo- and Exoglucanases on a Model Cellulose Substrate. <i>Langmuir</i> , 2012, 28, 14598-14608.	1.6	41
13	Neuronal activity sensing and modulation with Archers. <i>SPIE Newsroom</i> , 0, , .	0.1	1