# Claire N Bedbrook

List of Publications by Year
in descending order

| 13 papers | 1,185 citations | 687363 13 h-index | 1125743 13 g-index |
|---|---|---|---|
| 16 all docs | 16 docs citations | 16 times ranked | 1904 citing authors |

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