

# Daniel R Hochbaum

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/584160/publications.pdf>

Version: 2024-02-01

18  
papers

2,737  
citations

759233

12  
h-index

888059

17  
g-index

23  
all docs

23  
docs citations

23  
times ranked

3885  
citing authors

#	ARTICLE	IF	CITATIONS
1	All-optical electrophysiology in mammalian neurons using engineered microbial rhodopsins. <i>Nature Methods</i> , 2014, 11, 825-833.	19.0	666
2	Optical recording of action potentials in mammalian neurons using a microbial rhodopsin. <i>Nature Methods</i> , 2012, 9, 90-95.	19.0	403
3	Single-cell analysis of experience-dependent transcriptomic states in the mouse visual cortex. <i>Nature Neuroscience</i> , 2018, 21, 120-129.	14.8	394
4	Electrical Spiking in <i>Escherichia coli</i> Probed with a Fluorescent Voltage-Indicating Protein. <i>Science</i> , 2011, 333, 345-348.	12.6	355
5	A robotic multidimensional directed evolution approach applied to fluorescent voltage reporters. <i>Nature Chemical Biology</i> , 2018, 14, 352-360.	8.0	264
6	Bright and fast multicoloured voltage reporters via electrochromic FRET. <i>Nature Communications</i> , 2014, 5, 4625.	12.8	175
7	Early-Life Gene Expression in Neurons Modulates Lasting Epigenetic States. <i>Cell</i> , 2017, 171, 1151-1164.e16.	28.9	167
8	Distinct Cortical-Thalamic-Striatal Circuits through the Parafascicular Nucleus. <i>Neuron</i> , 2019, 102, 636-652.e7.	8.1	118
9	Anatomical and single-cell transcriptional profiling of the murine habenular complex. <i>ELife</i> , 2020, 9, .	6.0	67
10	Flash Memory: Photochemical Imprinting of Neuronal Action Potentials onto a Microbial Rhodopsin. <i>Journal of the American Chemical Society</i> , 2014, 136, 2529-2537.	13.7	35
11	Activity-dependent regulome of human GABAergic neurons reveals new patterns of gene regulation and neurological disease heritability. <i>Nature Neuroscience</i> , 2021, 24, 437-448.	14.8	33
12	Roadmap on neurophotonics. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 093007.	2.2	28
13	Measuring Membrane Voltage with Microbial Rhodopsins. <i>Methods in Molecular Biology</i> , 2014, 1071, 97-108.	0.9	3
14	Bots for Software-Assisted Analysis of Image-Based Transcriptomics. , 2017, , .		3
15	Analysis of Thermogenesis Experiments with CalR. <i>Methods in Molecular Biology</i> , 2022, 2448, 43-72.	0.9	3
16	A Comprehensive Live Cell Screening Approach for Developing Improved Microbial Rhodopsin-Based Voltage Biosensors. <i>Biophysical Journal</i> , 2014, 106, 415a.	0.5	1
17	Optogenetic Studies of Electrical Spiking in <i>E. coli</i> Using an Engineered Proteorhodopsin. <i>Biophysical Journal</i> , 2011, 100, 487a.	0.5	0
18	Development of an Optogenetic Sensor of Membrane Potential. <i>Biophysical Journal</i> , 2011, 100, 368a.	0.5	0