

Brian Y Chow

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

5,335
citations

430874

18
h-index

477307

29
g-index

34
all docs

34
docs citations

34
times ranked

7466
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Designing Single-Component Optogenetic Membrane Recruitment Systems: The Rho-Family GTPase Signaling Toolbox. <i>ACS Synthetic Biology</i> , 2022, 11, 515-521. | 3.8 | 10 |
| 2 | Temperature-responsive optogenetic probes of cell signaling. <i>Nature Chemical Biology</i> , 2022, 18, 152-160. | 8.0 | 21 |
| 3 | Computational framework for single-cell spatiotemporal dynamics of optogenetic membrane recruitment. <i>Cell Reports Methods</i> , 2022, , 100245. | 2.9 | 0 |
| 4 | Single-Component Optogenetic Tools for Inducible RhoA GTPase Signaling. <i>Advanced Biology</i> , 2021, 5, e2100810. | 2.5 | 20 |
| 5 | Optogenetic Rac1 engineered from membrane lipid-binding RGS-LOV for inducible lamellipodia formation. <i>Photochemical and Photobiological Sciences</i> , 2020, 19, 353-361. | 2.9 | 21 |
| 6 | Synthetic cell-like membrane interfaces for probing dynamic protein-lipid interactions. <i>Methods in Enzymology</i> , 2019, 622, 249-270. | 1.0 | 8 |
| 7 | Optically inducible membrane recruitment and signaling systems. <i>Current Opinion in Structural Biology</i> , 2019, 57, 84-92. | 5.7 | 14 |
| 8 | An Open-Source Plate Reader. <i>Biochemistry</i> , 2019, 58, 468-473. | 2.5 | 24 |
| 9 | De novo synthetic biliprotein design, assembly and excitation energy transfer. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180021. | 3.4 | 18 |
| 10 | Rational Construction of Compact <i>de Novo</i> -Designed Biliverdin-Binding Proteins. <i>Biochemistry</i> , 2018, 57, 6752-6756. | 2.5 | 11 |
| 11 | Optogenetic Inhibition of $G_{i\pm q}$ Protein Signaling Reduces Calcium Oscillation Stochasticity. <i>ACS Synthetic Biology</i> , 2018, 7, 1488-1495. | 3.8 | 14 |
| 12 | De Novo Designed Proteins for Ultrafast Detection of Membrane Potential Changes. <i>Biophysical Journal</i> , 2018, 114, 394a. | 0.5 | 0 |
| 13 | Directly light-regulated binding of RGS-LOV photoreceptors to anionic membrane phospholipids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7720-E7727. | 7.1 | 52 |
| 14 | Functional and topological diversity of LOV domain photoreceptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1442-51. | 7.1 | 125 |
| 15 | Toolbox for Exploring Modular Gene Regulation in Synthetic Biology Training. <i>ACS Synthetic Biology</i> , 2016, 5, 781-785. | 3.8 | 13 |
| 16 | Optogenetic Control of Calcium Oscillation Waveform Defines NFAT as an Integrator of Calcium Load. <i>Cell Systems</i> , 2016, 2, 283-288. | 6.2 | 67 |
| 17 | Independent optical excitation of distinct neural populations. <i>Nature Methods</i> , 2014, 11, 338-346. | 19.0 | 1,879 |
| 18 | Noninvasive optical inhibition with a red-shifted microbial rhodopsin. <i>Nature Neuroscience</i> , 2014, 17, 1123-1129. | 14.8 | 480 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | The Major Brain Cholesterol Metabolite 24(S)-Hydroxycholesterol Is a Potent Allosteric Modulator of <i>N</i> -Methyl-D-Aspartate Receptors. <i>Journal of Neuroscience</i> , 2013, 33, 17290-17300. | 3.6 | 204 |
| 20 | Optogenetics and Translational Medicine. <i>Science Translational Medicine</i> , 2013, 5, 177ps5. | 12.4 | 99 |
| 21 | Automated whole-cell patch-clamp electrophysiology of neurons in vivo. <i>Nature Methods</i> , 2012, 9, 585-587. | 19.0 | 214 |
| 22 | Genetically encoded molecular tools for light-driven silencing of targeted neurons. <i>Progress in Brain Research</i> , 2012, 196, 49-61. | 1.4 | 43 |
| 23 | Synthetic Physiology. <i>Science</i> , 2011, 332, 1508-1509. | 12.6 | 7 |
| 24 | Face-selective electrostatic control of hydrothermal zinc oxide nanowire synthesis. <i>Nature Materials</i> , 2011, 10, 596-601. | 27.5 | 323 |
| 25 | A High-Light Sensitivity Optical Neural Silencer: Development and Application to Optogenetic Control of Non-Human Primate Cortex. <i>Frontiers in Systems Neuroscience</i> , 2011, 5, 18. | 2.5 | 421 |
| 26 | Synthetic Physiology. <i>Methods in Enzymology</i> , 2011, 497, 425-443. | 1.0 | 10 |
| 27 | High-performance genetically targetable optical neural silencing by light-driven proton pumps. <i>Nature</i> , 2010, 463, 98-102. | 27.8 | 1,075 |
| 28 | Photoelectrochemical synthesis of DNA microarrays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 15219-15224. | 7.1 | 33 |
| 29 | Nanoscale Patterning on Insulating Substrates by Critical Energy Electron Beam Lithography. <i>Nano Letters</i> , 2006, 6, 2021-2025. | 9.1 | 72 |
| 30 | Solid-State Bonding Technique for Template-Stripped Ultraflat Gold Substrates. <i>Langmuir</i> , 2006, 22, 2437-2440. | 3.5 | 20 |
| 31 | Perfecting Imperfect "Monolayers": Removal of Siloxane Multilayers by CO ₂ Snow Treatment. <i>Langmuir</i> , 2005, 21, 4782-4785. | 3.5 | 29 |