# Michael Z Lin

List of Publications by Year
in descending order



| 65 | 15,709 | 87888 38 | 133252 59 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 76 | 76 | 76 | 22006 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Akt Promotes Cell Survival by Phosphorylating and Inhibiting a Forkhead Transcription Factor. Cell, 1999, 96, 857-868. | 28.9 | 5,895 |
| 2 | Improving the photostability of bright monomeric orange and red fluorescent proteins. Nature Methods, 2008, 5, 545-551. | 19.0 | 915 |
| 3 | Improving FRET dynamic range with bright green and red fluorescent proteins. Nature Methods, 2012, 9, 1005-1012. | 19.0 | 694 |
| 4 | Mammalian Expression of Infrared Fluorescent Proteins Engineered from a Bacterial Phytochrome. Science, 2009, 324, 804-807. | 12.6 | 638 |
| 5 | Characterization of Engineered Channelrhodopsin Variants with Improved Properties and Kinetics. Biophysical Journal, 2009, 96, 1803-1814. | 0.5 | 638 |
| 6 | A Suite of Transgenic Driver and Reporter Mouse Lines with Enhanced Brain-Cell-Type Targeting and Functionality. Cell, 2018, 174, 465-480.e22. | 28.9 | 571 |
| 7 | Genetically encoded indicators of neuronal activity. Nature Neuroscience, 2016, 19, 1142-1153. | 14.8 | 553 |
| 8 | The Growing and Glowing Toolbox of Fluorescent and Photoactive Proteins. Trends in Biochemical Sciences, 2017, 42, 111-129. | 7.5 | 514 |
| 9 | High-fidelity optical reporting of neuronal electrical activity with an ultrafast fluorescent voltage sensor. Nature Neuroscience, 2014, 17, 884-889. | 14.8 | 381 |
| 10 | Improving brightness and photostability of green and red fluorescent proteins for live cell imaging and FRET reporting. Scientific Reports, 2016, 6, 20889. | 3.3 | 339 |
| 11 | A Guide to Fluorescent Protein FRET Pairs. Sensors, 2016, 16, 1488. | 3.8 | 332 |
| 12 | Optical Control of Protein Activity by Fluorescent Protein Domains. Science, 2012, 338, 810-814. | 12.6 | 249 |
| 13 | Autofluorescent Proteins with Excitation in the Optical Window for Intravital Imaging in Mammals. Chemistry and Biology, 2009, 16, 1169-1179. | 6.0 | 244 |
| 14 | Ultrafast Two-Photon Imaging of a High-Gain Voltage Indicator in Awake Behaving Mice. Cell, 2019, 179, 1590-1608.e23. | 28.9 | 242 |
| 15 | Subcellular Imaging of Voltage and Calcium Signals Reveals Neural Processing InÂVivo. Cell, 2016, 166, 245-257. | 28.9 | 228 |
| 16 | A bright cyan-excitable orange fluorescent protein facilitates dual-emission microscopy and enhances bioluminescence imaging in vivo. Nature Biotechnology, 2016, 34, 760-767. | 17.5 | 221 |
| 17 | Eph-Dependent Tyrosine Phosphorylation of Ephexin1 Modulates Growth Cone Collapse. Neuron, 2005, 46, 191-204. | 8.1 | 216 |
| 18 | Non-invasive intravital imaging of cellular differentiation with a bright red-excitable fluorescent protein. Nature Methods, 2014, 11, 572-578. | 19.0 | 196 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Tunable and reversible drug control of protein production via a self-excising degron. Nature Chemical Biology, 2015, 11, 713-720. | 8.0 | 180 |
| 20 | Fluorescent indicators for simultaneous reporting of all four cell cycle phases. Nature Methods, 2016, 13, 993-996. | 19.0 | 171 |
| 21 | Fast two-photon imaging of subcellular voltage dynamics in neuronal tissue with genetically encoded indicators. ELife, 2017, 6, . | 6.0 | 161 |
| 22 | Kilohertz two-photon fluorescence microscopy imaging of neural activity in vivo. Nature Methods, 2020, 17, 287-290. | 19.0 | 155 |
| 23 | Optical control of cell signaling by single-chain photoswitchable kinases. Science, 2017, 355, 836-842. | 12.6 | 151 |
| 24 | Photoswitchable fluorescent proteins: ten years of colorful chemistry and exciting applications. Current Opinion in Chemical Biology, 2013, 17, 682-690. | 6.1 | 144 |
| 25 | Novel NanoLuc substrates enable bright two-population bioluminescence imaging in animals. Nature Methods, 2020, 17, 852-860. | 19.0 | 123 |
| 26 | A Single-Chain Photoswitchable CRISPR-Cas9 Architecture for Light-Inducible Gene Editing and Transcription. ACS Chemical Biology, 2018, 13, 443-448. | 3.4 | 103 |
| 27 | Toward the Second Generation of Optogenetic Tools. Journal of Neuroscience, 2010, 30, 14998-15004. | 3.6 | 95 |
| 28 | Cell-Type-Specific Optical Recording of Membrane Voltage Dynamics in Freely Moving Mice. Cell, 2016, 167, 1650-1662.e15. | 28.9 | 90 |
| 29 | Enhanced safety and efficacy of protease-regulated CAR-T cell receptors. Cell, 2022, 185, 1745-1763.e22. | 28.9 | 88 |
| 30 | Simultaneous dual-color fluorescence lifetime imaging with novel red-shifted fluorescent proteins. Nature Methods, 2016, 13, 989-992. | 19.0 | 87 |
| 31 | Understanding CRY2 interactions for optical control of intracellular signaling. Nature Communications, 2017, 8, 547. | 12.8 | 86 |
| 32 | Designs and sensing mechanisms of genetically encoded fluorescent voltage indicators. Current Opinion in Chemical Biology, 2015, 27, 31-38. | 6.1 | 84 |
| 33 | New Alternately Colored FRET Sensors for Simultaneous Monitoring of Zn2+ in Multiple Cellular Locations. PLoS ONE, 2012, 7, e49371. | 2.5 | 77 |
| 34 | Fluorescent and photo-oxidizing TimeSTAMP tags track protein fates in light and electron microscopy. Nature Neuroscience, 2012, 15, 1742-1751. | 14.8 | 71 |
| 35 | Quantitative Multiscale Cell Imaging in Controlled 3D Microenvironments. Developmental Cell, 2016, 36, 462-475. | 7.0 | 70 |
| 36 | Selective Labeling of Proteins with Chemical Probes in Living Cells. Physiology, 2008, 23, 131-141. | 3.1 | 67 |

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|---|---|---|---|
| 37 | A drug-controllable tag for visualizing newly synthesized proteins in cells and whole animals. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7744-7749. | 7.1 | 63 |
| 38 | Optobiology: optical control of biological processes via protein engineering. Biochemical Society Transactions, 2013, 41, 1183-1188. | 3.4 | 42 |
| 39 | StaPLs: versatile genetically encoded modules for engineering drug-inducible proteins. Nature Methods, 2018, 15, 523-526. | 19.0 | 42 |
| 40 | Brightening up Biology: Advances in Luciferase Systems for in Vivo Imaging. ACS Chemical Biology, 2021, 16, 2707-2718. | 3.4 | 42 |
| 41 | Integrated Neurophotonics: Toward Dense Volumetric Interrogation of Brain Circuit Activityâ€”at Depth and in Real Time. Neuron, 2020, 108, 66-92. | 8.1 | 40 |
| 42 | Replication-Competent Influenza Virus and Respiratory Syncytial Virus Luciferase Reporter Strains Engineered for Co-Infections Identify Antiviral Compounds in Combination Screens. Biochemistry, 2015, 54, 5589-5604. | 2.5 | 38 |
| 43 | An orange calcium-modulated bioluminescent indicator for non-invasive activity imaging. Nature Chemical Biology, 2019, 15, 433-436. | 8.0 | 37 |
| 44 | A compact synthetic pathway rewires cancer signaling to therapeutic effector release. Science, 2019, 364, . | 12.6 | 33 |
| 45 | Optobiochemistry: Genetically Encoded Control of Protein Activity by Light. Annual Review of Biochemistry, 2021, 90, 475-501. | 11.1 | 30 |
| 46 | Study protocol: multi-parametric magnetic resonance imaging for therapeutic response prediction in rectal cancer. BMC Cancer, 2017, 17, 465. | 2.6 | 29 |
| 47 | On the cutting edge: protease-based methods for sensing and controlling cell biology. Nature Methods, 2020, 17, 885-896. | 19.0 | 24 |
| 48 | Optical control of biological processes by lightâ€switchable proteins. Wiley Interdisciplinary Reviews: Developmental Biology, 2015, 4, 545-554. | 5.9 | 22 |
| 49 | Beyond the rainbow: new fluorescent proteins brighten the infrared scene. Nature Methods, 2011, 8, 726-728. | 19.0 | 19 |
| 50 | Investigating neuronal function with optically controllable proteins. Frontiers in Molecular Neuroscience, 2015, 8, 37. | 2.9 | 17 |
| 51 | Two-Photon Voltage Imaging of Spontaneous Activity from Multiple Neurons Reveals Network Activity in Brain Tissue. IScience, 2020, 23, 101363. | 4.1 | 17 |
| 52 | Optical control of fast and processive engineered myosins in vitro and in living cells. Nature Chemical Biology, 2021, 17, 540-548. | 8.0 | 17 |
| 53 | Structure-guided wavelength tuning in far-red fluorescent proteins. Current Opinion in Structural Biology, 2016, 39, 124-133. | 5.7 | 14 |
| 54 | Excitation wavelength optimization improves photostability of ASAP-family GEVIs. Molecular Brain, 2018, 11, 32. | 2.6 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | TimeSTAMP Tagging of Newly Synthesized Proteins. Current Protocols in Protein Science, 2010, 59, Unit 26.5. | 2.8 | 9 |
| 56 | A red fluorescent protein with improved monomericity enables ratiometric voltage imaging with ASAP3. Scientific Reports, 2022, 12, 3678. | 3.3 | 9 |
| 57 | Optical regulation of endogenous RhoA reveals selection of cellular responses by signal amplitude. Cell Reports, 2022, 40, 111080. | 6.4 | 8 |
| 58 | Kinase pathway inhibition restores PSD95 induction in neurons lacking fragile X mental retardation protein. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12007-12012. | 7.1 | 5 |
| 59 | A Bright, Nontoxic, and Non-aggregating red Fluorescent Protein for Long-Term Labeling of Fine Structures in Neurons. Frontiers in Cell and Developmental Biology, 0, 10, . | 3.7 | 4 |
| 60 | Combinatorial effects of RhoA and Cdc42 on the actin cytoskeleton revealed by photoswitchable GEFs. Sensors and Actuators B: Chemical, 2022, 369, 132316. | 7.8 | 4 |
| 61 | A Suite of Transgenic Driver and Reporter Mouse Lines with Enhanced Brain Cell Type Targeting and Functionality. SSRN Electronic Journal, 0, , . | 0.4 | 2 |
| 62 | Experimental systems for optogenetic control of protein activity with photodissociable fluorescent proteins. , 2015, , . | | 1 |
| 63 | FRET Imaging of Rho GTPase Activity with Red Fluorescent Protein-Based FRET Pairs. Methods in Molecular Biology, 2022, 2438, 31-43. | 0.9 | 1 |
| 64 | An Axonal Blueprint: Generating Neuronal Polarity with Light-Inducible Proteins. Cell Chemical Biology, 2019, 26, 1634-1636. | 5.2 | 0 |
| 65 | Simultaneous Detection of Four Cell Cycle Phases with Live Fluorescence Imaging. Methods in Molecular Biology, 2021, 2274, 25-35. | 0.9 | 0 |